

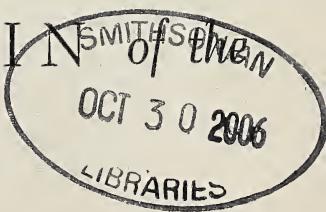
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A BULLETIN OF THE
AMERICAN IRIS SOCIETY

APRIL, 1954

NUMBER 133



THE AMERICAN IRIS SOCIETY

A non-profit institution incorporated Feb. 2, 1927, in the County of Philadelphia, State of Pennsylvania. By the terms of the Charter, the Corporation has no stockholders and exists for the sole purpose of promoting the culture and improvement of the IRIS.

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Editor's Foreword

THE SCOPE of one's horizon must necessarily be a potent factor in the estimation of the worth of any plant or group of plants. The camellia, for instance is an example of this. Its perfect blossom and glossy foliage make it a wonderful plant for mild climates, but in the North it is a plant for the greenhouse or the conservatory. Therefore in the overall garden picture its relative worth depends entirely upon the section of the country which happens to be under consideration.

With other plant families containing both hardy and tender individuals such a question may be more difficult to resolve. The iris for example, is grown from the Atlantic to the Pacific and from Mexico to Saskatchewan. Obviously, any given variety may be expected to perform differently in a region so vast and varied, and gardeners living in one area where extremes of soil or climate are the rule rather than the exception should learn tolerance before condemning a variety for a poor or indifferent performance.

Mine is a good example of the case in question. Some years ago I acquired a piece of Snow Flurry. The first spring it passed out, so I bought it again. The next spring it was full of rot so I dug it up and discarded it. I told myself that Snow Flurry was no good and marked it off my list. Later I discovered that the fault was with me, and definitely not with Snow Flurry.

First of all, my iris garden was on a north hillside and the slanting rays of the spring sun were not enough to dry out my clumps and prevent the spread of fungus spores and disease bacteria which seemingly are always present in soil that is rich in humus. Second there was a thermal condition due to the topography of the land which accentuated an already bad freezing and thawing condition.

My gardening methods were faulty in that I did nothing to alleviate this freezing and thawing, and as for myself, I was bull-headed. Irises were not supposed to need any cover in Tennessee I told myself, and I would simply be dad-gummed if I was going to start covering them.

Fortunately I came to my horticultural senses before I lost all of my irises. I moved them down on the flat, and began the use of several types and methods of winter covering to offset freezing and thawing and to counteract the effects of late winter warm spells.

And what happened to Snow Flurry? Nothing very much! It just about won all the awards the AIS has to offer; it became immensely popular and its name was on the tip of every irisarian's tongue. Lastly, its universal use by practically all iris breeders has made it the greatest single factor in present day iris breeding, quite on a par with such landmarks as Dominion, W. R. Dykes and Kashmir White.

President's Report

The editor of the Bulletin has asked me to write a brief report on the "state of the iris nation." Our big year in Boston is over. It was a lot of work for our Regional Vice-President George Pride and his committee, but from all reports the visitors had a good time. The iris were in good form, even if we did give them a very "warm" finale at the convention.

As of the close of the year we have about 4,300 members, a slight drop from the 1950 peak, but almost four times the membership at the close of the war. Interest in specialized flower societies has grown enormously and we have shared in that growth and hope to keep it. Local iris societies are being organized in all regions of the country and we wish to encourage them, and hope that they will be closely affiliated with the American Iris Society. In some of the local societies the annual dues include membership in the AIS, and in most of them membership in our society is encouraged. Local city, town and regional groups can have frequent meetings and garden visits, which are often difficult to arrange for the whole region because of the long distances to be travelled.

The treasurer's and secretary's report shows increased income from dues. The slight raise in annual dues has been recognized by our members as necessary in these times, and is in line with other flower societies. Also the triennial membership, with its lower cost, is becoming increasingly popular. Many husbands and wives take advantage of our family membership, whereby both are full members of the society, and so feel that they "belong." Our expenses total over \$23,000 each year, leaving little cash balance at the end of the year. The Bulletin costs \$8,000 or more, and our salary list is over \$7,000.

The directors have held two regular meetings, at each of which twelve of the thirteen directors were present. This speaks well for their interest in the society, as they not only give the time to come from all parts of the country, but travel entirely at their own expense. Mrs. Irving as chairman of the Exhibition Committee has done a splendid job, as is attested by the reports of the increasing number of AIS sponsored shows. Our Registrar, Mrs. Robinson, has not only straightened out our past records, but has registered over 550 varieties in 1953. Her report is most complete and understandable, eliminating all symbols but that of color, and giving the seedling number wherever available. I extend the thanks of the society to both of these ladies and hope they will long serve the society in their present capacities. At their last meeting the directors voted to revive the office of Recorder of Intro-

ductions and to ask Mrs. Walter Colquitt to continue in that capacity.

Interest in species iris is being fostered under the enthusiastic leadership of Mr. Lee Lenz, who is establishing a species test garden at the Santa Ana Botanical Gardens in California where members are urged to send clones for growing. The Society for Louisiana Irises (all members of which belong to the AIS) has a most enthusiastic group of members in our southern states. Their annual meeting is well attended. Controlled crosses are producing beautiful flowers, most of which are hardy in New England, Illinois and other northern parts where they are being tested. The season of bloom is later than the tall bearded iris. Try a few and you will like them. The Dwarf Iris Club originated by Walter Welch has built up tremendous interest in this entrancing group. Crosses between various species have broken down the sterility block, and beautiful little flowers of clear color and nice form are fast coming on the market. The Yearbook of the Louisiana Society and the Dwarf Iris Portfolio are both worthy of careful reading. The Spuria Iris Society, affiliated with the AIS, has recently been organized in Texas, and there is much interest in these stately flowers in Texas, Arizona, Southern California and other parts of the Southwest.

The directors have approved the recommendation of the Scientific Committee that iris be classed entirely by height. The committee very reluctantly came to the conclusion that since hybridizers were inter-crossing the various iris sections to such an extent, and since parentages were in many instances so complicated, that botanical derivations must be cast aside and that we must follow the lead of the daffodil people and use only the foot-rule. No classification can be considered as final and no doubt further changes will from time to time become necessary.

A disease of iris called "scorch" seems to be increasing in several sections of the country. The roots of the plant dry up and become merely hollow husks, the rhizome becomes hard, the leaves turn brown from lack of nourishment, and in many cases the plant dies. It has appeared in New England, in Texas and other places. There seems to be no known way of preventing or curing it, although some have reported that new healthy rhizomes have grown in time on affected plants that have been treated in various ways. The scientific committee and the directors have this very much in mind, and efforts are being made at Cornell to identify the cause. The perennial problems of soft rot and leaf spot are also with us. We are very conscious of the importance of the prevention and cure of these and other iris diseases, and the report of the scientific committee as published will keep you informed of progress.

Three booklets have been published recently—the Handbook for Judges and the Reprint of Registrations for 1950-51 and 1952 are already available. There is now in the hands of the printer a pamphlet to be given to new members, entitled "What Every Iris Grower Should Know." It contains in brief form much information about iris culture and the society. It is well illustrated and our thanks are due to George H. Pride for compiling this useful booklet. It fills a need of long standing, and any member can procure a copy for twenty-five cents. This book has adopted the word "iris" for singular and plural, and personally I favor this over the rather awkward plural form of "irises."

Eight of our regional vice-presidents retired as of the end of the year, most of them having served the full three-year term permitted by our by-laws. Our thanks and appreciation go to George H. Pride, Mrs. C. M. Zirbel, Mrs. Isabelle Henderson, Mrs. Lillian Trichel, Mrs. Ralph Nelson, Mrs. Otto Stuetzel, Miss Willie Birge and Mr. LeMoine J. Bechtold.

The eligibility period for Award of Merit has been reduced from five to four years after receiving Honorable Mention. The list of eligible varieties had become too long and analysis showed that most of the awards were made to the more recent varieties. The symposium is now called the "Popularity Poll" and is featured by the flower magazines. For the benefit of fanciers a limited "Judges Choice" of the newer varieties was tried experimentally. A successful membership campaign by regions was held and another one is underway for this year under our "go-getting" membership chairman, Mr. Scott.

HAROLD W. KNOWLTON

Judges' Symposium of New Irises

For 1953

MARION WALKER, *Chairman*
Awards Committee

At the November meeting of the Board of Directors of the American Iris Society the perennial discussion of the Symposium arose.

After considerable discussion it was the opinion of your Board that the Symposium as constituted had great value in certain areas. It gives the entire membership the opportunity to participate in the program of the Society, the list of one hundred favorite iris gives good publicity to the Society, the list of one hundred favorites chosen by the membership is a fine selection of iris from which the ordinary flower lover can make a choice and have a nice iris garden within moderate means.

On the other hand it was felt by your Board that the list did not meet the needs of the iris specialist who wants to know more about the newer things in the iris world.

It was therefore decided to have a new poll "The Judge's Choice." This list was to be composed of the iris winning an H.M. award in the last two years of awards balloting. This list includes iris that are not eligible for any other award until the following year, thus there is no duplication of awards balloting. The question has been raised as to why some of the iris eligible for the A.M. this year were not added. The answer is that it would be duplication of voting since these iris were voted on by the same judges in the spring and your A.M. list for this year gives you that rating.

You will find the results of the first Judge's Choice tabulated below. This list gives the opinion of the judges on the newer iris introduced. There is a definite correlation between this list and the H.M. lists of 1952 and 1953. The only other factor involved is that of distribution. The combination of these two factors gives the iris fancier the considered judgment of the iris judges concerning the new iris being introduced on the market today. We hope this will stimulate interest among the membership and be of real value to those who are interested in improving the species.

The following is the tabulated result of the balloting which was done by the judges of the American Iris Society. The list was composed of the 97 iris which won the Honorable Mention Award in 1952 and 1953.

**FIRST ANNUAL JUDGE'S CHOICE OF IRIS
RECEIVING H.M. 1952 & 1953**

Number of ballots returned 270, Number of ballots counted 240,
 Number of ballots not voted or defective 30

<i>Name</i>	<i>Breeder</i>	<i>Votes</i>
1. Sable Night.....	Paul Cook	127
2. Happy Birthday.....	David Hall	126
3. Frances Kent.....	Fred DeForest	91
4. Limelight.....	David Hall	90
5. Inca Chief.....	Grant Mitsch	87
6. Palomino.....	David Hall	85
7. Violet Harmony.....	Mrs. Franklin Lowry	79
8. Temple Bells.....	David Hall	70
9. Pink Plume.....	Robert Schreiner	68
10. Ruffled Organdy.....	Edward Brenan	60
11. First Violet.....	Fred DeForest	58
12. Frances Craig.....	Tom Craig	54
13. Fuchsia.....	David Hall	51
14. Mystic Melody.....	Jean Stevens	49
15. Pretender.....	Paul Cook	46
16. Wedding Bouquet.....	Stedman Buttrick	46
17. Pagan Royal.....	Geddes Douglas	44
18. June Bride.....	David Hall	43
19. Royal Sovereign.....	Jean Stevens	43
20. Senorita Ilse.....	Guy Rogers	43
21. Garnet Glow.....	Henry Sass	42
22. Ruffled Bouquet.....	Clara Rees	41
23. Spanish Fandango.....	R. E. Kleinsorge	41
24. White Peacock.....	Mrs. Douglas Pattison	41
25. Lady Ilse.....	Kenneth Smith	40

Runners-up receiving more than 35 votes:

26. Green Mohr.....	Tell Muhlstein	39
27. Gypsy Classic.....	Fred DeForest	39
28. Vanity Fair.....	David Hall	39
29. Copper Medallian.....	Robert Schreiner	38
30. Mohr Majesty.....	Marion R. Walker	36
31. Pinafore Lass.....	Franklin Cook	36

AIS Medals Awarded, 1953

At the November meeting of the Board of Directors, the following members were awarded the Society's medals.

MRS. FREDERICK P. WALThER

JOHN C. WISTER, Pa.

It is a great satisfaction to members of the Society to learn that a medal has been given Mrs. Frederick P. Walther in recognition of her work as chairman of the committee in charge of the Presby Memorial Iris Garden in Montclair, N.J.

Mr. Presby was one of the founders of the Society and its first treasurer. He did, perhaps, more than anyone else to make the Society a success in its first years. He was an outstanding amateur gardener in Montclair, widely known and respected. It was very fitting after his death that the citizens of Montclair should wish to establish a garden in his name.

When the site of the garden was chosen in Mountainside Park on Upper Mountain Avenue, just a few miles above Mr. Presby's former home, Mrs. Walther became its chairman. She has often said that she was chosen only because she happened to live next door to the Park, for although she was at that time an enthusiastic gardener with a most attractive small garden, she was not at the time particularly interested in iris.

She quickly became interested in iris. She joined the Society and began to attend its meetings. With Mr. Walther she visited private gardens from coast to coast whenever she could. She studied books and catalogs and, most important of all, the living plants themselves, learning the characteristics and requirements and the combinations of color which would give the best effects in the garden.

As members of the Society will remember there was an article, with a fine photograph, about the Presby Garden in the October 1948 Bulletin. This photograph was taken from the roof of Mrs. Walther's house giving a bird's-eye view of the whole garden, but of course could not begin to show the fine color arrangement. The garden at that time had approximately 1,000 varieties of iris. One of the most interesting groupings was at the north end. This was an historical section where many of the older irises which have long since been dropped out of the gardens of most members have been kept for reference. Here beginners could see what irises have been in the past and thus realize the great improvements that have been made by breeders. Among the irises there shown were one or two wild species and such old varieties as Mme. Chereau, Honorabilis, Celeste, Albert Victor, and Sambucina, which



Mrs. Walther and friend inspect Presby Gardens.

date back half a century or a century. There were also some of the typical varieties which were considered among the best when the AIS was founded. These include Princess Beatrice, Reine Nixe and Iris King, and then during the 1920-30 decade such varieties as Dominion, Ambassadeur, Souv. de Mme. Gaudichau, Morning Splendor, Cardinal, Ballerine and Magnifica.

Mrs. Walther's knowledge of varieties of course soon led to her becoming a judge for the Society. Her devotion to the garden and to iris has been constant, her hospitality having brought visitors back to the garden time after time and turned many a casual visitor into an iris enthusiast. She has each year given many talks over the radio and to garden clubs and civic groups without any charge.

Last but not least she has struggled with patient understanding and determination with the problems that have arisen from changes in the personnel of the town government and the inevitable changes in attitude towards the garden by the commissioners and park officers. The problem of park costs in Montclair, as in all places, is a serious one and from time to time it has seemed that available labor would be withdrawn. Each time the committee, through Mrs. Walther's efforts, has been able to interest enough citizens in keeping up the garden to impress the officials that they could not abandon it or neglect it.

Last May a meeting was held to celebrate the 25th anniversary of the garden and at that time, although it was a rainy day, more than

100 people attended the meeting, which, on account of the weather, was held in Mrs. Walther's house. The park commissioner and other city officials were present, and the members of the committee at that time presented a silver bowl to Mrs. Walther in recognition of her wonderful work of over a quarter of a century.



WILLIAM J. MCKEE HAROLD KNOWLTON, Mass.

William J. McKee, past president of the American Iris Society, was awarded the Hybridizer's Medal of the Society November 1, 1953. Thus, Mr. McKee becomes the second person who has received both the Hybridizer's and Distinguished Service Medals. The other recipient of both medals is Mr. E. G. Lapham, former treasurer and director of the Society. Mr. McKee became a member of the Society in 1921 and began hybridizing in 1923 as a hobby. His early crosses were made with named varieties without any definite planning. In 1940, he began line breeding and since then his introductions have been from his own line of seedlings and with very favorable results. He is now one of the most ardent advocates of line breeding, and can give you from memory the ancestry of his originations back several generations.

His first introduction was Royal Beauty in 1932, a purple considered very fine at that date. It was a cross of (Dominion x Trojana) x Souvenir de Mme. Gaudichau and received an Award of Merit. Mr. McKee has introduced 34 varieties of iris into commerce. A partial list of these is as follows:—

1932	Royal Beauty	1950	Ponder
1938	Janet Butler		Jericho
1939	Redyen	1951	Mayan Gold
1942	Mary Vernon		Kim
1944	Francelia	1952	Chinese White
1945	Miobelle		Pequot
1946	Moontide	1953	Eben
1947	Miogem		Ardeur
	Mary Ellen		Planet
1948	Augusta	1954	Ceylon
	Orange Gem		Trim
1949	Blue Angel Wings		
	Fairday		

One of his best known varieties is the variegeta Mary Vernon, which received the Award of Merit of the American Iris Society in 1945 and the Award of Merit of the Royal Horticultural Society of England in 1953. He considers Mary Vernon, Moontide, Fairday, Miobelle, Ponder and Pequot as his most outstanding breeders. Moontide, a yellow blend, from a cross of Red Gleam x Mary Vernon, is the parent of his line of reds including Pequot, Hywill and Trim; also the parent of the line of yellow and orange tones such as Orange Gem, Mayan Gold, Temple and Ceylon. Trim is the beautiful red which was the center of attention at the annual convention last June and which is scheduled for introduction by Schreiner's.

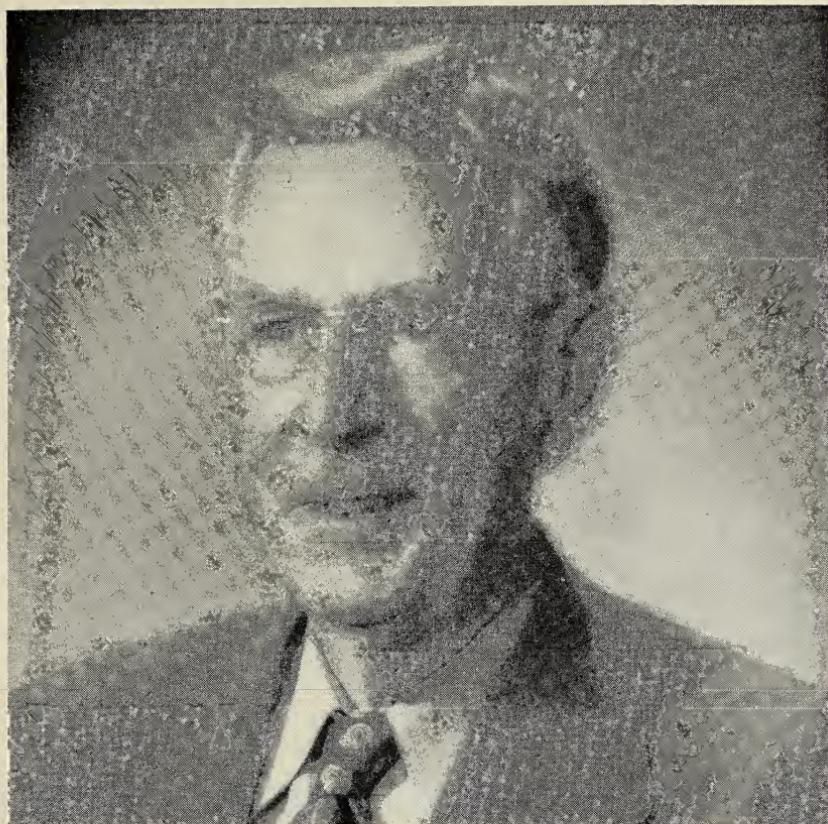
Mr. McKee served as President of the American Iris Society in 1940-1941 and 1942. He also served as director for 16 years. In 1943 he was awarded the medal for Distinguished Service to the Society. He has lectured on iris topics and written articles on iris subjects. He is co-author of the book "Half Century of Iris" to be published in the near future.

CHARLES SPENCER MILLIKEN

MISS ARCHIE MACLEAN, Calif.

Carl Spencer Milliken, iris hybridizer of thirty years standing, has been awarded the highest honor of the American Iris Society—The Hybridizer's Medal. Mr. Milliken was one of the early iris growers in Southern California. He became associated with the Dean Iris Gardens of Moneta, California in 1923. In 1924, he bought the stock from Mrs. Dean and moved it to his Altadena home where he maintained a garden known as the Southern California Iris Gardens. Here were developed some of his most famous iris.

Mr. Milliken's first hybridizing record started in 1926. San Gabriel, Queen Caterina, Conquistador, Mme, Monet, Aphrodite, and Souv. de Mme. Gaudichau were the parents of his early crosses. Red Flare was Mr.



Milliken's first introduction. This one was followed by many others, over eighty.

In a direct cross between Mauna Loa and Dauntless, his 890th cross, China Maid appeared. China Maid has appeared on the symposium list 12 times indicating that it is a long time favorite of iris growers. Not only is China Maid an outstanding iris but it has produced such well known progeny as Painted Desert, Grand Marshall, Rose Gold, Venetian Red, Trail Blazer, Tournament Queen, and many others.

In 1941 Mr. Milliken moved his iris garden to Arcadia. Here he developed, on a 2½ acre site, a most beautifully landscaped garden among the native oaks and flowering fruit trees. This garden became nationally known. In nearby growing fields Mr. Milliken continued his hybridizing, not only with tall bearded iris but also with spurias and with *hemerocallis*. Wadi Zemm Zem, considered by many the world's most outstanding spuria was introduced in 1943.

The ever increasing population of Southern California and the demand for more homes caused Mr. Milliken to subdivide his growing fields for homes and move further away from the residential area. He now has twenty-two acres of growing ground in the Pomona Valley near the little town of Walnut. Here he is continuing to grow those famous Milliken iris. He is also continuing his hybridizing and we will find more Milliken iris among the new introduction each year.

Just to keep the record straight, here are the Milliken Introductions.

1932	Red Flare	1945	Autumn Leaf
1934	Royal Salute		Buddha
1936	China Maid		Manila
	China Boy		Mother's Day
	Mount Cloud		Palo Verdes
	Old Ironsides		Peru
1938	Sun Gold		San Marino
	Blue Spire	1946	Debut
1939	Regal Beauty		Deep Mahogany
	Ferric		Laelia Pink
	Spanish Cavalier		Rose Gold
	Sparkling Frost		Tournament Queen
	Spring Dance	1947	Arcadia Buttercup
	Touch O'Blue		Bel-Air
1940	Day's Farewell		Brazil
	Ivory Queen		Desert Sands
	King's Ransom		Desert Sunset
1941	Blue River		Dixie Belle
	Break O'Day		Early Spring
	Chrysolite		Luxuria
	Fort Knox		Navajo Brave
	Mountain Sky		Sherwood Forest
	Troubadour		Spring Sunshine
1942	Painted Desert		Sunset Cloud
	Rose Bowl		Tournament of Roses
1943	Betsy Ross		Nantucket
	Beverly Hills		Curtain Call
	Carmelita		Adornment
	China Bowl		Opera Cape
	China Lady		Preview
	Dixie Sunshine	1948	Tournament Princess
	Wadi Zem Zem		Springtime Madonna
1944	Grand Marshall		

Hemerocallis Introductions

	Buckthorn Brown	Tindalao
	White Heather	Veiled in Mystery
	Royal Crest	1952 Red Velour
1949	Mohr Beauty	Colonial Dame
	Amber Beam	Capistrano
	Daphne Pink	Cathedral Towers
	Golden Cloud	Party Gown
	Lord Marmion	Tamara
	Muted Blue	Pompeian Red
	Old Cranberry	Redrock Canyon
	Spring Show	High Noon
1950	Forest Violet	Burnt Sugar
	Glendorette	Havana Brown
	Michillinda	Madrigal
	Montecito	Capri
	Spring Serenade	Carmelo
	Trail Blazer	Fond Caress
	Venetian Red	Summer Love
1951	Burning Driftwood	Gold Strike
	Canyon Shadows	Cosette
	Graduation Ball	Cradle Song
	Lovely Lucinda	Lark Ellen
	Raven Wing	Volcano

Notice to Hybridizers

GUEST IRISES for the 1955 American Iris Society Convention at Hamilton, Ontario will be received from April 1st to July 31st, 1954.

The chance of bloom for 1955 will be much greater if sent in the spring.

Kindly request shipping labels well in advance from:

L. Laking
Box 399
HAMILTON, Ontario

and make all shipments to this address.

Southern California Iris Society Meets

The Southern California Iris Society at its January meeting witnessed the presentation of irisdom's most coveted award. Mr. Marion Walker, Vice-President of the American Iris Society, presented the Hybridizer's Medal of the American Iris Society, to Mr. Carl Milliken. This is the third time this award has been made to a member of the Southern California Society. Mr. Clarence White and Mr. Eric Nies had previously been so honored. Mr. Carl Milliken was one of the founders of the Southern California Iris Society and has been an active member through the years.

The program following the presentation was one of particular interest to those present. Dr. Lee Lenz, of the Rancho Santa Ana Botanical Gardens and Chairman of the Beardless and Species Committee of the American Iris Society spoke on "Embryo Culture of the West Coast Species." Dr. Lenz illustrated his talk with specimens showing various stages in the technique involved. He also showed some kodachromes of his new hybrids, nicely illustrating the possibilities that lie ahead for those who are working with west coast species. Two of his hybrids have already been introduced, Santa Ana, a yellow orange with brown markings and Santa Paula, a creamy white with yellow spot on the falls. They are very showy when in bloom, the foliage being practically hidden by the flowers.

The meeting closed with a social hour and refreshments, so that all could congratulate Mr. Milliken and admire his medal.

New Introductions 1954

BLACK CHERRY (HALLS 44-45 x Ranger)

A large 6 x 8½" well formed ruffled dark red flower, carried on a strong four branched stem with 12 buds, heavy substance. Standards Ruby Red, Falls Garnet Lake, Orange Beard. Late, 40". \$15.00

FORMAL LADY, (Pure Pink Blood)

A large well rounded flower, Pink self, of good carrying quality, close to bishops violet, (M & P. plate 44 15), Tangerine Beard, Haft somewhat veined, good garden flower. Midseason 41". \$12.00

NATHAN H. RUDOLPH

405 LAKEAWN BLVD. • AURORA, ILLINOIS

Chromosome Numbers in Iris

L. F. AND FANNIE R. RANDOLPH

It was just twenty-five years ago that A. E. Longley¹ published in an early issue of this Bulletin the first list of chromosome numbers in garden varieties of tall bearded iris. Although there were a few earlier records of chromosome determinations in iris, Longley was the first to show that the older varieties of chiefly European origin were diploids with one set of 12 chromosomes in their germ cells. A few years later the French cytologist Marc Simonet undertook an extensive survey of chromosome relationships in the genus *Iris*. The results of this survey were published in a series of three papers that appeared in 1929,⁷ 1932⁸ and 1934⁹. Of special significance to iris breeders was the discovery by Simonet that the European species *I. pallida* and *I. variegata*, from which originated most of the garden varieties of tall bearded iris introduced before 1900, were diploids. Simonet also discovered that the Eastern Mediterranean species *I. trojana*, *cypriana*, *macrantha* and *mesopotamica*, which were utilized by Sir Michael Foster, Vilmorin, Cayeux, Denis, Bliss and others at the close of the 19th and beginning of the 20th century to create markedly improved horticultural varieties, were tetraploids with twice as many chromosomes as the original European sorts.

Our studies of iris chromosomes were undertaken in the early 1930s to find out to what extent polyploidy and differences in chromosome number might account for the unexplained and often negative results of crossing various garden varieties and species that were being reported by hybridizers. Chromosome counts of numerous species of both beardless and bearded iris and more than 60 garden varieties of bearded iris were published in 1934.³

During the following 10 years many additional counts were made and a list of all the known chromosome numbers of tall bearded garden irises was published in 1944.⁴ This list included 420 varieties of which 31 had been counted by Longley from a collection at Harvard College of mostly older European varieties, and 82 by Simonet of later European sorts. The remaining 334 counts were made in our laboratory from an unselected group of varieties being grown in American gardens at that time. Both American and European originations were included in this group of varieties.

This survey of chromosome numbers in garden varieties of tall bearded irises demonstrated that there had been a transition from diploidy to tetraploidy among these varieties during the 30-year period

1. These numbers refer to references cited at the end of this article.

from 1910 to 1940. As shown in the accompanying table which summarizes the counts made up to 1944, only 5 of 67 varieties produced before 1910 were tetraploids. This was only 7 per cent of the varieties counted from that period. Among varieties introduced from 1910 to 1924 the per cent of tetraploids increased to 37, and during the next decade it increased to 60 per cent.

	$2N$	$3N$	$4N$	$5N$	Total	$4N/Total$
Before 1910	59	3	5	0	67	7
1910-1924	37	10	29	2	78	37
1925-1934	53	9	93	1	156	60
1935-1943	4	1	124	0	129	96

Among varieties introduced from 1935 to 1943 there were identified 124 tetraploid varieties which constituted 96 per cent of the total of 129 from which counts are available. The corresponding decrease in the percentage of diploids during the entire period under consideration was from 88 per cent before 1910 to 4 per cent during the interval from 1935 to 1943.

The triploids identified in making these counts were in all probability chiefly the result of intercrossing diploids and tetraploids. Rarely, $3n \times 4n$ crosses in which an unreduced germ cell of the triploid parent combined with a normally reduced germ cell of a tetraploid produced an individual with five sets of chromosomes. There is also ample evidence of the functioning of unreduced germ cells in $2n \times 4n$ crosses, the result being tetraploids rather than triploids in the first generation. This has been demonstrated experimentally and it is highly probable that such "breaks" as the famous Dominion of Bliss originated in this manner. Various types of chromosome behavior that might have been involved in the establishment of tetraploidy in the tall bearded garden irises were discussed briefly in an article on iris breeding in a Cornell Extension bulletin.²

In recent years it has become increasingly clear that the lines which formerly could be drawn between the various categories of bearded iris, such as the dwarfs, intermediates, talls and oncobreds, are gradually being obliterated. Iris breeders are developing many new kinds of hybrids, which are extremely difficult to classify except on the basis of their garden characteristics.

Parentage and chromosome number can no longer be used consistently as reliable criteria for distinguishing between dwarfs and intermediates as defined in the revised classification of 1948,⁶ and the same is true in varying degree of other categories of garden irises. It was for this reason that the American Iris Society recently adopted a horticultural classification of bearded irises based solely on the height of the flower stalk.¹⁰

This classification defines the Dwarfs as varieties and species with flower stalks less than 15 inches in height, the Intermediates with flower stalks ranging in height from 15 to 28 inches and the Tall Bearded as being more than 28 inches in height. Height is to be measured from the ground level to the tip of the standards of the terminal flower, rather than to the base of the ovary as done in recording the height of the stem in taxonomic descriptions of iris species.

The following determinations of chromosome number in various species have been made in our laboratory during the past few years. Some of these counts have been reported previously by others from plants of different sources. The new horticultural classification of the American Iris Society was followed in listing the named varieties in different categories.

Species and Collected Forms

<i>attica</i>	16	<i>kashmiriana</i>	44
<i>Alberti</i>	24	<i>kashmiriana</i>	48
<i>Arenaria (flavissima)</i>	22	<i>mellita</i>	24
<i>Chalkhadiki dwarf</i>	48	<i>orchidoides</i>	22
<i>chamaeiris</i>	40	<i>pallida</i>	24
<i>Cretica</i>	32	<i>pumila</i>	32
<i>flavissima</i>	22	<i>Reichenbachii</i>	24
<i>graberiana</i>	48	<i>rubromarginata</i>	24
<i>Grant-Duffii</i>	24	<i>sintenesii</i>	16
<i>Junionia</i>	48	<i>tingitana</i>	28

Dwarf Bearded Irises

<i>Alinda</i>	36	<i>Little Elsa</i>	40
<i>Baria</i>	40	<i>Little Jewel</i>	40
<i>Black Midget</i>	40	<i>Moongleam</i>	40
<i>Blue Band</i>	36	<i>Niobe</i>	40
<i>Ditton Purple</i>	44	<i>Primus</i>	36
<i>Fairy Flax</i>	40	<i>Silver Elf</i>	44
<i>Fallen Leaf</i>	31	<i>Small Wonder</i>	40
<i>Gracilis</i>	48	<i>Thisbe</i>	24
<i>Green Spot</i>	40	<i>Tony</i>	40
<i>Helens Child</i>	40	<i>Violet Gem</i>	36

Intermediate Bearded Irises

<i>Chancelot</i>	32	<i>Kharput</i>	44
<i>Primavera</i>	44	<i>Lodestar</i>	25
<i>Progenitor</i>	48	<i>Priscilla</i>	48

Tall Bearded Irises

<i>Alastor</i>	25	<i>Iowa Maid</i>	48
<i>Amandine</i>	48	<i>Mount McKinley</i>	47
<i>Choir Boy</i>	48	<i>Sarah Goodloe</i>	49
<i>Forerunner</i>	48	<i>Solid Mahogany</i>	48
<i>Garden Glory</i>	48	<i>William Setchell</i>	48

The specimens of *I. attica* from which the count of 16 was obtained came directly from Mt. Parnes near Athens, Greece which is within the natural range of distribution reported for this species. The Cretica specimen resembles *pumila* and is said to have come from the island of Crete; but this is uncertain as no published record of the occurrence of such a species there has been found, although an Apogon species, *Cretensis* is known. The Chalkhadiki dwarf, which was found to have 48 chromosomes, a number very rare among dwarf irises, was collected on the Chalkhadiki peninsula only a relatively short distance to the northeast of the *attica* locality. As this specimen has not yet flowered for us, its specific identity is uncertain. Whether it is more similar to *mellita* or clones of *Reichenbachii* which have 24 chromosomes, or to the rare 48-chromosome *balkana* from this general area is unknown.

It is hoped that studies of the cytotaxonomy of these and other species of iris that occur along the northern shores of the Mediterranean, which are being undertaken as this is written, may throw additional light on the natural relationships and the evolutionary history of the genus Iris.

References Cited

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3. Randolph, L. F. A.I.S. Bulletin 52: 61-66, 1934.
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7. Simonet, Marc. Bull. Soc. Nat. Hort. de France. 5th ser. 2: 88-94, 1929.
8. Simonet, Marc. Bull. Biol de France et Belgique 105: 255-444, 1932.
9. Simonet, Marc. Ann. des Sci. Nat. Bot. 10th ser. 16: 229-383, 1934.
10. Minutes of A.I.S. directors' meeting. Boston. June 5, 1953. A.I.S. Bull. 130: 118-121, 1953.

1954 Meeting of American Iris Society

"THIS IS THE PLACE"

SALT LAKE CITY — MAY 26, 27, 28 & 29

Convention Headquarters

Hotel Utah, Main & South Temple

OTHER HOTELS WITH AIS ALLOTMENTS

Hotel Temple Square

Hotel Newhouse

South Temple & West Temple

Main Street & 4th South

AAA MOTELS:

Alta Motor Lodge

Evergreen Tourist Court

1899 South State

2000 South State

Brewster's Seagull Motel

Covey's New America Mtr. Lodge

325 North 2nd West

522 South Main

Covered Wagon Motor Lodge

Lunt Motel

230 West North Temple

525 East 4th South

Dean's Motor Lodge

Tower Motor Lodge

1821 South Main

1009 South State

Downtown Motel

Utah Motor Park

371 East 4th South

972 South State

Send Registration Fee of \$25 to Hugh C. Lewis, Treasurer of Utah Iris Society, 627 Third Avenue, Salt Lake City, Utah.

Registration Fee Includes: "Get Acquainted Dinner" at Hotel Utah May 26th, Luncheon at James L. White—Fisher Harris and Charles C. Parsons gardens in Salt Lake City May 27th, Dinner at Hotel Utah May 27th, Luncheon at Provo, Utah on May 28th, Luncheon at Magna, Utah on May 29th, American Iris Society Banquet on May 29th, and Bus Fares on May 27, 28 and 29.

A large attendance is expected, and HOTEL and MOTEL RESERVATIONS should therefore be made well in advance, stating that it is for AIS meeting.

Individual transportation as desired will be available without charge to all American Iris Society members in Salt Lake City both before May 26th and after May 29th.

OUTLINE OF CONVENTION PROGRAM

WEDNESDAY—MAY 26th

- | | |
|------------|--|
| All day | Registration—Hotel Utah |
| 7:00 p.m. | Buffet and “Get Acquainted Dinner”—Hotel Utah |
| | THURSDAY—MAY 27th |
| 8:00 a.m. | Visiting Gardens—Salt Lake City |
| 12:00 Noon | Luncheon—James L. White, Fisher Harris and Charles C. Parsons Gardens |
| 1:00 p.m. | Visiting Gardens—Salt Lake City |
| 7:00 p.m. | Buffet Dinner—Hotel Utah |
| 8:45 p.m. | Concert—Tabernacle on Temple Square, by the “World Famous Tabernacle Choir and Organ.” |

FRIDAY—MAY 28th

- | | |
|------------|---|
| 8:00 a.m. | Visiting Gardens—Provo-Orem Area |
| 12:00 Noon | Luncheon—Provo, Utah |
| 1:00 p.m. | Visiting Gardens—Provo-Orem Area |
| | No scheduled dinner for this evening |
| 7:30 p.m. | Board of Directors’ Meeting
Regional Vice-Presidents’ Meeting
Round Robin Meeting—Showing of slides to those not attending any of those meetings. |

SATURDAY—MAY 29th

- | | |
|------------|---|
| 8:00 a.m. | Visiting Gardens—Salt Lake Valley (Outside of Salt Lake City) |
| 12:00 Noon | Luncheon—Magna, Utah |
| 1:00 p.m. | Visiting Gardens—Magna, Utah |
| 2:00 p.m. | Visiting the largest “Open Cut” Copper Mine in the U.S.—Bingham, Utah |
| 7:00 p.m. | Banquet—Hotel Utah (Principal Address by Tom Craig of California)
Moving pictures will be shown of “Utah’s Scenic Wonders,” after the dinner festivities, speeches, etc. |

This banquet will end the “Scheduled Convention.” However, May 30th falls on Sunday this year and being a “Holiday” it will therefore be celebrated on Monday, May 31st. This will give two additional days for “informal visits” to other gardens and scenic spots around Salt Lake City.

The Members of the Utah Iris Society will furnish cars, and drivers, for these side trips, to anyone caring to make them. So also as to visitors arriving before May 26th.

For further information address UTAH IRIS SOCIETY,
1422 Military Way, Salt Lake City, Utah.

1954 CONVENTION COMMITTEE

C.M. REYNOLDS, Chairman; FISHER HARRIS, M. D. NAYLOR, JAMES L. WHITE

Convention Information

The American Iris Society does not plan to sponsor Special Train or Special Car Service to Salt Lake City for our meeting.

However, for the convenience of our members who plan to attend the meeting in Salt Lake City, May 26-29, 1954, we have secured from the Union Pacific Railroad information regarding the round trip railroad fares, both first class and coach, from various points to Salt Lake City, as well as train schedules from Chicago, St. Louis and Kansas City.

From	VIA CHICAGO		VIA ST. LOUIS	
	First Cl.	Coach	First Cl.	Coach
Atlanta, Ga.....	\$119.60	\$ 91.70	\$119.60	\$ 91.70
Birmingham, Ala.....	108.05	83.45	108.05	83.45
Boston, Mass.....	175.56	128.13	175.56	128.13
Chicago, Ill.....	87.10	67.20		
Cincinnati, Ohio.....	110.20	84.05	110.20	84.05
Detroit, Mich.....	112.55	85.85	112.55	85.85
Jackson, Miss.....	117.60	89.30	100.05	77.65
Louisville, Ky.....	103.78	79.66	101.80	77.90
Memphis, Tenn.....	105.25	79.70	93.25	71.95
Nashville, Tenn.....	105.45	80.70	105.45	80.70
Philadelphia, Penna.....	157.10	114.30	157.10	114.30
Pittsburgh, Penna.....	127.60	94.70	127.60	94.70
St. Louis, Mo.....			81.85	63.20
VIA KANSAS CITY				
From	First Cl.	Coach		
Kansas City.....		\$ 67.25	\$ 51.95	
Dallas, Texas.....		76.15	58.75	
Houston, Tex.....		88.50	68.30	
Little Rock, Ark.....		86.65	67.00	
Tulsa, Oklahoma.....		76.15	58.75	

ALL FARES SHOWN ARE SUBJECT TO 15% FEDERAL TAX

Train schedule from Chicago via C&NW-Union Pacific:

Lv. Chicago	9:00 AM Sun.	7:15 PM Sun.	10:30 PM Sun.
Ar. Salt Lake	8:00 AM Mon.	7:10 PM Mon.	9:10 AM Tues.

Train schedule from St. Louis via Wabash-Union Pacific:

Lv. St. Louis	4:00 PM Sun.	11:40 PM Sun.
Ar. Kansas City	9:30 PM Sun.	8:30 AM Mon.
Ar. Salt Lake City	10:00 PM Mon.	9:10 AM Tues.

Equally fast schedules returning.

The above trains provide travel comfort in sleeping car accommodations of your choice or in deep-cushioned rest-easy coach seats.

First class tickets honored in sleeping cars on payment of regular Pullman fare for accommodations selected.

FOR EXTRA ECONOMY begin your travel on Monday, Tuesday or Wednesday with Union Pacific's HALF FARE FAMILY TRAVEL PLAN. Representatives from the Traffic Offices of the Union Pacific Railroad located in the various cities, will gladly furnish you all information.

MINUTES OF DIRECTORS' MEETING

October 31-November 1, 1953, Hotel Cleveland, Cleveland, Ohio

The meeting was called to order by President Knowlton and the following Directors were present: Guy Rogers, Jesse Wills, Stedman Buttrick, Carl O. Schirmer, Dr. L. F. Randolph, W. J. Moffat, W. F. Scott, Jr., J. W. House, Marion R. Walker, Don Waters and Secretary, Geddes Douglas.

It was moved and passed that:

The election to the Board by the membership for the three year term beginning 1954, of Mr. Moffat, Mr. Buttrick, Mr. Waters and Mr. Rogers be confirmed.

The following appointments by President Knowlton filling vacancies of Regional Vice-Presidents in the regions indicated below be approved:

- | | |
|--------|-----------------------------------|
| Region | 1. John A. Bartholomew |
| | 2. Mrs. Henry W. Blenis |
| | 5. Milton Blanton |
| | 10. Claude Davis |
| | 11. Homer Metcalf |
| | 12. M. D. Naylor, Acting |
| | 15. Miss Archie MacLean |
| | 17. Mrs. John E. Gill |
| | 19. Mrs. Kenneth D. Smith, Acting |
| | 20. Everett L. Cline |

The Report of the Treasurer, Mr. Carl Schirmer for the ten-months period from January 1, 1953 to November 1, 1953 be approved. Further the Treasurer was instructed to prepare a complete twelve-months report for publication in the Bulletin in the April issue.

The Secretary be instructed to write Miss Archie MacLean, Custodian of the Farr Memorial Library, and ask Miss MacLean to forward the various items which constitute the Library to the Nashville Central Office, and further that these books and pamphlets be used to form the nucleus of a lending library. The Secretary was instructed to report on this matter to the Board at its next meeting.

The Secretary's report be accepted and approved. Further that the Secretary be empowered to dispose of outdated correspondence, records, etc. now being carried in storage in Nashville. Further that the extra Bulletin stock be cut to 50 copies per issue; that all orders and membership correspondence be disposed of prior to two years previous to date; that all vouchers, cancelled checks, etc., previous to 1948 be disposed of.

Mr. W. F. Scott, Jr. be asked to contact certain iris dealers concerning the inclusion of information about the American Iris Society and cultural directions for growing iris in their 1954 catalog. This material to be supplied by the AIS.

Arrangements be made to index all issues of the Bulletin.

The report from the Color Classification Committee, Mr. J. Arthur Nelson, Chairman, be accepted. Further that the Secretary be instructed to write Mr. Nelson and thank him for his report which represents considerable study and work, and thank him for this report in the name of the Society, and further that Mr. Nelson be asked to continue his study of the color classification problem, and further that Mr. Nelson's recommendations be accepted. In accepting this report the Board asked Mr. Nelson that if feasible this report be made available to AIS members who should want it through the Exhibition Committee.

The Report of the Registrar be accepted and specifically the following recommendations be approved: That the Registrar be authorized to discontinue any unnecessary symbols except those for color. The Registration Committee was instructed to furnish the Registrar with word descriptions to be used in the place of season of bloom symbols.

Registration rules as set out in Bulletin 117, p. 62, be abandoned and that the rules and regulations as set out in the Report of the Registrar herein referred to be adopted subject to further study by the Registration Committee for possible changes and additions. The Registration Committee is herein instructed to present final draft of new rules and regulations to the Board at its next meeting.

The report of progress of the Classification Committee, L. F. Randolph, Chairman, be accepted and that Dr. Randolph be advised of the appreciation of the Board of Directors for his painstaking work in the preparation of this report.

The office of Recorder of Introductions be reactivated as of January 1, 1954. That Mrs. Walter Colquitt of Shreveport, Louisiana who held the office of Recorder of Introductions at a previous date be re-appointed to this office subject to her acceptance.

The Awards Committee be asked to furnish the Editor of the Bulletin with a list of exhibition judges appointed for 1954 by the Exhibition Committee for the express purpose of judging in AIS accredited shows, and that this list be published in the April Bulletin. It is to be noted that all AIS accredited judges are also accredited to judge AIS exhibitions and shows as well as garden judging.

That the Award of Merit which was voted by the Board at a previous meeting to the iris William Mohr be considered as a mark of distinction, and that having received this award that the iris William Mohr not be considered eligible for the Dykes Medal; further that any such special awards which might be made in the future be so treated.

The date July 10 be adopted as the limit of eligibility for voting in the award of Honorable Mention with reference to Registration, i.e. no iris registered after July 10 is eligible to receive the Honorable

Mention Award in that year.

The requirement for Award of Merit be changed to read: "This award is given yearly only to those officially registered and duly introduced varieties of any origin that have received Honorable Mention not less than two nor more than five full years prior to the current season, and . . ."

The Awards Committee be authorized to conduct a popularity Symposium by the entire membership. That the list of irises eligible for the popularity poll be composed in 1954 of tall bearded iris, all of which have received Honorable Mention between the years 1949-53. The list also contains the 200 iris receiving the highest vote on the 1953 Symposium.

A committee composed of Don Waters, Chairman, W. F. Scott and Stedman Buttrick for the purpose of establishing rules and regulations for a Judges' Symposium of New Irises to be inaugurated immediately.

The report of the Membership Committee, W. F. Scott, Chairman, be accepted and approved. And further that the committee be instructed to formulate rules and regulations for a membership drive in 1954. Tentative plans to be published in the January Bulletin were received and approved.

All accredited, exhibition and honorary judges of the AIS be appointed for a term of one year with the express stipulation that such judges be members in good standing of the Society. And further that a list of all judges appointed be published yearly.

The Report from the Scientific Committee, L. F. Randolph, Chairman, be accepted and published in a future issue of the Bulletin.

The Report of the Species Committee, Lee Lenz, Chairman, embodying an offer by the Rancho Santa Ana Botanic Garden for the establishment and conduct of a test garden for West Coast Native Irises, be considered and held in abeyance pending further investigation by Mr. Knowlton, President.

The progress report of the Slides Committee, Don Waters, Chairman, be accepted and approved, and further that the donors of all slides be reimbursed on the basis of 50c or two frames of film per slide.

Dr. L. F. Randolph be appointed as associate delegate to serve with The Hon. John Wister in representing the AIS at the meetings of the American Horticultural Council to be held in Philadelphia.

A committee be appointed to consist of the Chairman of the Board of Counselors, Secretary of the Society and Chairman of the Awards Committee for the purpose of formulating written instructions for use by new Regional Vice-Presidents.

The 1953 Awards and Popularity Poll be approved as published.

The Franklin Cook Memorial Cup Award to the iris *Violet Harmony* be approved.

That a photo contest to be instituted in the April Bulletin be authorized.

The sum of \$500.00 be allotted to the Scientific Committee for the year 1954 to be used for traveling expenses in plant research by its Chairman, L. F. Randolph.

The Slides Committee be authorized to begin a stereo-slide set.

A Committee be appointed consisting of Joe House, Chairman, Guy Rogers and Stedman Buttrick for the purpose of recommending revision of the Society's By-Laws.

Upon the motion of Geddes Douglas and seconded by Don Waters that Mr. W. F. McKee be awarded the Society's Medal for Hybridizing; and further upon motion by Mr. Schirmer and second to the motion by Mr. Walker, Mr. Carl Milliken be awarded the Society's Medal for Hybridizing; and further upon motion by Dr. L. F. Randolph and seconded by Mr. Guy Rogers the Society's Medal for Distinguished Service be awarded to Mrs. F. P. Walther.

Now and henceforth the Secretary is instructed to notify the recipients of all AIS Medals by telegram.

After adjournment at six p.m. on the evening of October 31, the Board reconvened at nine A.M. on November 1. The following business was considered.

It was moved and passed that:

Upon recommendation of Mr. Harold Knowlton, President, the Chairman of all standing committees were reappointed.

The Chairman recognized Mr. Don Waters reporting for the committee appointed the previous day for the establishment of a Judges' Symposium. The Committee recommended that all accredited judges of the AIS be polled by submitting to them a list of irises having received Honorable Mention in 1952 and 1953, and that the judges be asked to pick from this list their fifteen favorites. The Chairman of the Awards Committee was instructed to assemble a list of twenty-five irises having received the greatest number of votes by the judges; and that this list be published as the Judges' Choice of Outstanding New Introductions.

The following officers were selected by the Board to serve for the year 1954:

<i>President</i>	Harold W. Knowlton
<i>1st Vice-President</i>	Marion R. Walker
<i>2nd Vice-President</i>	W. F. Scott, Jr.
<i>Treasurer</i>	Carl O. Schirmer
<i>Secretary-Editor</i>	Geddes Douglas

Respectively submitted, GEDDES DOUGLAS, Secretary

TREASURER'S REPORT

December 31, 1953

	<i>Receipts</i>	<i>Disbursements</i>
January.....	\$ 2,613.65	\$ 1,038.31
February.....	6,241.00	2,835.77
March.....	2,538.33	971.31
April.....	1,015.75	1,205.26
May.....	1,441.68	4,705.79
June.....	2,733.17	1,106.93
July.....	2,354.92	1,080.47
August.....	2,014.41	3,118.54
September.....	614.50	1,713.89
October.....	608.50	1,302.18
November.....	1,178.71	3,240.65
December.....	997.45	873.30
Total.....	<u>\$24,352.07</u>	<u>\$23,192.40</u>
Balance on hand in bank January 1, 1953.....		\$ 4,229.95
Petty Cash fund on hand in Brentwood office.....		1,000.00
Total Receipts for above period.....		<u>24,352.07</u>
		<u>\$29,582.02</u>
Disbursements for the above period.....		<u>\$23,192.40</u>
Balance on hand as of January 1, 1954.....		<u>\$ 6,389.62</u>
Also on hand		
5 U.S. Series F Bonds 1944		
3 U.S. Series F Bonds 1945		
2 U.S. Series F Bonds 1946		
with a total maturity value of \$10,000.00		

Respectfully submitted,
CARL O. SCHIRMER, *Treasurer*

SECRETARY'S REPORT

December 31, 1953

RECEIPTS

Memberships—

Renewals @3.50.....	\$ 843.50
Renewals @4.00.....	8,304.00
New @3.50.....	395.50
New @4.00.....	3,284.00
Family.....	1,715.00
Triennial.....	5,061.00
Sustaining.....	655.00
Life	150.00

Books—

Check List (1939)	\$ 120.00
Check List (1949)	367.50
Bulletins	150.90
Other Books	762.50

Income from other sources—

Slides	\$ 280.00
AIS for BIS	170.55
Advertising	1,066.00
Registrations	12.00
Exhibition Committee	306.96

Miscellaneous—

To Make Triennial	\$ 152.00
To Make \$4.00	27.50
Refunds	103.85
Other miscellaneous	424.31

TOTAL RECEIPTS \$24,352.07

Salaries

DISBURSEMENTS

Salaries	
Gladys Williams	\$ 2,400.00
Clerical & Bookkeeping	1,200.00
Editor	3,000.00
Assistant Editor	250.00
Extra Help	243.36
Office Rent	600.00
Janitor & heat	308.00
Insurance	26.22
Refunds	117.60
Miscellaneous	280.46
Postage	690.68
Office supplies	478.20
Printing (office forms, etc.)	451.41
RVP expenses	109.94
Committee expenses	1,421.81
Advertising	458.37
Other books	809.22
Reprint of Registrations &	
Judges' Handbook	862.00
Bulletin	
Printing	8,773.00
Engraving	450.69
Postage	261.44
TOTAL DISBURSEMENTS	\$23,192.40

That Matter of Form

CHAS. WM. VORIS, Pa.

In the Handbook for Judges, page 76 AIS Bulletin 130, July 1953, form is said to be the tricky point to handle and is correctly said to be subject to personal preference. Various forms may indicate many different qualities such as beauty, power, primness, that the hybridizer may set up as his objectives. These qualities are subject to analysis which may be demonstrated, and have little to do with subjective feeling, and virtually nothing to do with that far-fetched abstract symbolism of the psychoanalysts.

While color, texture, and fragrance are important contributors to the pleasing symphony of beauty in many of the arts, in sculpture and architecture they are frequently played down if not entirely absent. Form alone permeates the arts and may emphasize any quality of power or beauty in the mind of the artist. When such quality is put in stone, on canvas, or in a living flower, it is demonstrated, and to some extent is objectively measurable.

All form has its origin in a movement which outlines it. A plane geometrical form traces its origin to the restricted movement of a straight line fixed rigidly to a fulcrum. For example, a radius such as the hand of a clock in its movement as a straight line attached to a fixed point has the circle as its ultimate outlined form. The radius moving less than 360 degrees or the swinging pendulum of a clock outlines the triangle with substended arc. A solid geometrical form is traced to the movement of a plane geometrical figure turning on its main axis or of the plane form moving over the outline of its own or other plane forms. For example, the circle turning on its diameter describes the sphere, but a circle moving in the outline of a circle makes a solid ring or doughnut form.

Mechanical movements are the regular or irregular repeated movements of implemented geometrical forms (witness turning wheels, drive shafts, etc.) and they amplify power through the principle of mechanical advantage.

A beautiful form traces its origin to the movement of a line that is free to undulate from its fulcrum, or which has no fulcrum apparent. Such movements may be characterized as generous, free, condescending, or in one word—*graceful*. They may be seen, with the forms they describe, in the ballet, at the evening ball, or by watching the soaring bird, or the human body floating in air off the high board.

Hence, the flower hybridizer or collector may attain for his efforts any quality he may wish to emphasize. He may content himself with



photo by (Syracuse) Post Standard

Split-Rock Home of Mr. and Mrs. King

The home of Mr. & Mrs. Ross L. King which is located six miles west of Syracuse, New York on the road to Camillus, is a classic example of Greek revival architecture. Built in 1833 it stands on a tract of land representing a revolutionary grant and settled in 1797.

As to the house itself Mrs. King has carefully preserved the tone of the period using furniture in keeping with the surroundings. Handsome Chippendale and Sheraton pieces keep company with a Sleepy Hollow chair and old brass in the lovely living room. There are four-posters with patch work quilts in the bedrooms.

The house is one of the oldest in Onondaga County (N.Y.). Irisarians interested in visiting this lovely house and garden will be welcomed by the owners Mr. & Mrs. King who are ardent iris fans as is evidenced by the above photograph. More than 100 modern tall bearded varieties grace this lovely garden.

a garden of circles, plates of color, globes or circles, triangles rotating on an axis making corolla tubes, and will achieve a very colorful geometry indeed. Or he may twist the petals of circular flowers and achieve mechanical forms outlined by spinning wheels suggestive of amplification or transmission of power. All have an appropriate place in any garden. Likewise he may breed for the undulating line that may give the flaring falls or dress of the evening ball, or the horizontal falls or skirts of the ballet, or he may prefer figure 3—the straight hanging falls or skirt of the Puritan maid. If he desires the free movement of the soaring bird, or human body floating in air he may be forced to look over some of the Cattleyas, or introduce entirely new forms into the Iris world. The more he incorporates the form outlined by a generous movement, the more he will add to the grace and beauty of the earth.

RHS AWARDS TO AMERICAN VARIETIES

The Council of the Royal Horticultural Society has made the following awards to American bearded irises on the recommendation of the Joint Iris Committee of the Royal Horticultural Society and the British Iris Society, after trial at Wisley:—

First Class Certificate

Blue Rhythm	June 12, 1953	(A.M. 1950)
Jane Phillips	June 12, 1953	(A.M. 1951)
Sable	May 29, 1953	(A.M. 1950)

Award of Merit

Black Forest	June 4, 1953
Hi Time	June 4, 1953
Lady Mohr	May 29, 1953
Mary Vernon	May 29, 1953
Master Charles	June 12, 1953
Mattie Gates	May 29, 1953
New Snow	May 29, 1953
Sarah Goodloe	June 12, 1953
Seagull	May 29, 1953
Zantha	June 4, 1953

Avonbank Gardens

LLOYD ZURBRIGG

233 WATER STREET • STRATFORD, ONT., CANADA

2 New Canadian Iris for 1954

SULTAN'S ARMOUR (Edmison)—The finest border iris to date. 24", one branch and terminal, midseason bloom. A flaring deep brown self without haft marking. Standards tightly closed and swirled. Perfectly proportioned, and ideal with the flamingo pinks. Vigorous and hardy. (ARMOUR BRIGHT x SULTAN'S ROBE). \$20.00

PIANISSIMO (Edmison)—As softly coloured as the name implies. Standards are pale peach-pink; falls are white with an orange-peach band around the edge $\frac{1}{4}$ " in width. Beard white tipped peach-pink. A new pattern and colour in a hardy plant with extra heavy stalks and foliage, and largest rhizomes. It is fertile both ways, giving a great opportunity for hybridizers. Needs a little more depth of colour and longer lasting qualities. (Muhlestein #47-108 x Muhlestein #49-11). \$12.00

1953 Introductions of Canadian Iris

(See Bull. #128 for complete descriptions)

ALGIERS (Bickle)—winner of Canadian seedling-of-the-year award in 1952. Faultless and supremely rich rose blend (MULBERRY ROSE x PRAIRIE SUNSET). \$10.00

ARMOUR BRIGHT (Edmison)—Horizontally flaring wide yellow without haft marking that is an astounding parent, having already produced SULTAN'S ARMOUR and the new PRINCESS ANNE. Yields pure whites, reverse bicolours and rich blends. \$5.00

MINDEMOYA (Miles)—A Louis XV blue from William Miles that is unsurpassed in form and near to true blue. It represents entirely new blood in blues, and will be a key parent. (VANDA x ELIZABETH OF ENGLAND). \$12.00

OKON (Kummer)—A dwarf whose wiry 12 to 15" stems are ideal for cutting and the deeply ruffled onco-veined flowers make a striking bouquet. It is completely hardy, but prefers a well-drained spot. Strong graceful foliage and vigorous growth. \$5.00

WABASHINE (Edmison)—This iris is GUDRUN (its pollen parent) grown tall. Named after its pod parent, WABASH, it bears a trace of pink colour in the fall. Fertile pollen and sets some seed, and produces yellow as well as purple amoenas.

BALLET IN BLUE (Miles)—Not a new introduction here, this superb iris is still not known in the United States. Perfect in the garden or in the show. \$4.00

U.S. customers will obtain an import permit from the Bureau of Entomology and Plant Quarantine, Washington, D.C. Plants will be sent express in order to obtain border inspection. Shipping will begin on July 1. Please make remittance payable in Canadian currency.

West Coast Iris Tour

MRS. J. L. MELROSE, Calif.

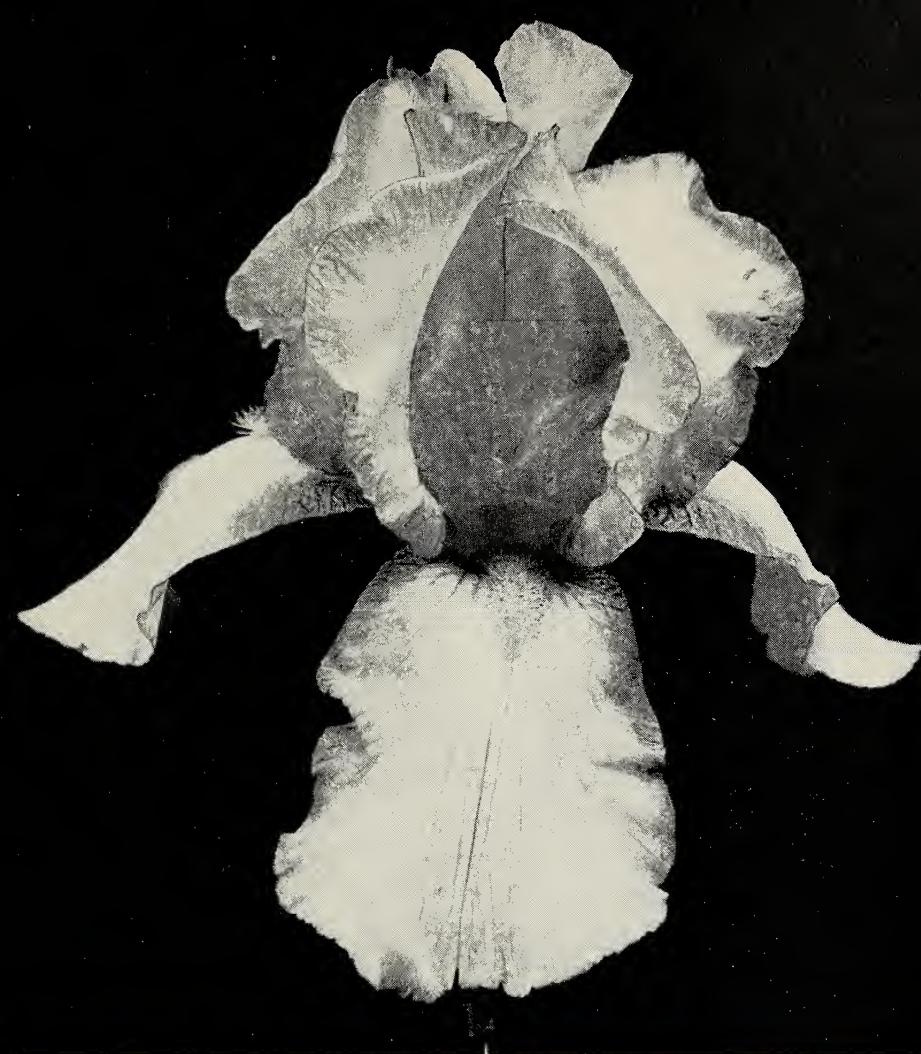
This was started in good faith—for the July 1953 Issue of the Bulletin. Then the busy season was upon us and nothing was done about it until August or September, when I started out again, “now that the asters, cannas, zinnias and begonias are taking over, this is as good a time as any to start the Memoirs of an Iris See’r,” but before I got any further, the hunting season was upon us and again nothing was sent in for the October Issue. Now that the frost is upon us maybe I can get this off in time for the January Issue.

To go back to March, our season here in Modesto, California, started out to be good. The dwarfs made bright splashes of color along the paths and in their own special beds. They are very satisfactory and are fast coming into their own for rock garden and border trim, or wherever a low bright spot is needed. Wee Admiral is rich and dark, but very bright and quickly attracts the eye; Moon Gleam is soft yellow and serene; Blue Mascot and Little Skipper add the blue notes and Little Elsa is a harbinger for the larger Elsa Sass and the Pinnacle type Tall Beards.

Then the Arils and hybrids took our breath away—Susiana with eight huge globular blooms on a two year plant. It always looks like it was made of the beautiful sheer gray and black material that our great grandmothers’ dresses were made from, then Andromache, Artemis, and Asporina were very exotic. Camilla put on a real show but little Sirona stole it with its charming perky form and big signal patch. Hamadan is always welcome, not heard of very often but very nice—tall for a hybrid, good violet color and the characteristic signal of the Arils. Beauty Spot, Young April, Fallen Leaf, Oyez, Nelson of Hilly and Tantalizer did their lovely bits to usher in the Tall Beard’s season.

The Big Show opened with dainty Flora Dora, Ballerina and the lovely Pink Sensation. As the season progressed the huge Cloud Cap, flaring Vanity Fair, ruffled Party Dress, Pink Formal and Love Story kept us “in the pink.”

For apricots we liked Melody Lane, Top Flight, Afar, Hi-Time and June Bride. Tosca and Sky Ranger, Blue Valley and Distance were good in the blue class while Solid Gold and Gold Sovereign held the yellow field. Tranquility, New Snow, Spanish Peaks and White Peacock were accents in white while Argus Pheasant, Centurian and Thotmes III were top browns—of course we don’t want to slight Pretty Quadroon, Voodoo and Your Worship either! Orelia, Pacemaker, and



Snow Crystal, a Wills introduction, is a blue and white plicata of heavy substance and fine form. The markings are very light.

photo by cassebeer

Redwyne were very fine and Quechee was the "hot" red. Palomino is in a class by itself and is just as pretty as its picture. Bronze Brocade, Oriental Glory and Golden Symphony stopped admirers in their tracks, and lovers of orchid admired Lynn Langford and the older Dreamcastle. None of these faded in our hot sun, but did equally as well in partial shade, so all are suited to our climate.

It was hard to make a choice of plicatas—Captain from Castile is the aristocrat, Gala Finale is about the brightest thing in the plicata field while Port Wine, Raspberry Ribbon and Love Lace were extra good. Gold Dust and Honor Bright are quieter, very refined plies with fine form in their types. Of all the plicatas we saw we agreed that the late Sydney B. Mitchell's Woodmont Plume—to be introduced in 1954—was "IT." Here it had everything—substance, texture, stem, branching, form, beauty, and it is hardy and a good increaser. The color is a rosy violet on white—the flower large and very flaring and it does not show its age. It lasted for five days under our hot sun. We feel confident it will be one of the GREAT plicatas.

Our Tall Bearded season closed around May 15th this year with old Shah Jehan, Extravaganza, Golden Symphony and the most beautiful of them all—Truly Yours.

We are fortunate in having a very early season due to our location in the warm San Joaquin Valley, and when our season is on the wane we can drive eighty miles and enjoy peak bloom at the Acalenes Gardens in Lafayette—the lovely Diehl Gardens in Alamo, Cottage Gardens in Hayward, Carl Salbach's in Berkeley and Larry Gaulter's color *full* garden in San Leandro. Larry is one man that can crowd more iris in one backyard than any other man we know—good ones too!

Acalanes Gardens are introducing some of the last and finest of the S. B. Mitchell seedlings—So Sweet, Color Harmony, Coronation Finery, Woodmont Plume, Evening Storm and Dark Magic will make debuts from there in '54. After enjoying many new things from the East in Diehl's fine display garden and in Gaulter's, and looking at the blaze of color in the Cottage Gardens, and seeing Oriental Glory in all its rich splendor in its home setting at Salbach's, we headed North.

Our first stop was at the Rainbow Gardens in Placerville, the 21st of May. It started to rain—and that was just the beginning! We visited the gardens in the morning under overcast skies. The gardens were in peak bloom and looked beautiful in the subdued light. We were attracted to Rev. Benbow's (England) onco seedling #1-S-365B. The standards were pale yellow with a deep yellow border and the falls were flushed blue with distinctive olive veining. Spotlight and Jane Phillips looked especially fine. The Siberians were very good, Turquoise Cup, Cool Spring, Night Sprite and Gatineau being very fine. Amiguita



White Sailor

Peacock's Iris Gardens

Introductions for 1954

WHITE SAILER: (Baker 1949) Sass Sdlg. 35-59 x Sierra Snow... \$15.00

Tested for five years. A gorgeous white, with white beard on the falls, about midway toward the center of the flower. The beard blends to orange yellow which seems to illuminate the throat of the iris, and is very exceptional.

PINK GOLDTHROAT: (Baker 1949) Inspiration x Ohl 40-83 pink
Sdlg. \$10.00

Rose pink falls and standards, blending into a golden central portion of a large highly frilled bloom, making it truly what the name indicates.

BUMBLEBEE: (Baker 1949) Golden Majesty x A bee pollinized... \$ 7.50

Bronze Gold, sharp full flaring falls, closed standards, well branched and prolific, dedicated to the insect which made it possible.

CREME KING: (Baker 1950) Snoqualmie x Golden Fleece..... \$ 5.00

Tall bearded, broad semi-flaring falls, closed standards, cream self. Both falls and standards are faintly edged with gold, no other iris like it.

1954 CATALOG ON REQUEST

PEACOCK'S IRIS GARDENS

3425 WEST CENTRAL • WICHITA, KANSAS

was charming and a "must have" for the wild garden. A very intriguing seedling took our attention, J#31, a "prong horn" bearded plicata—a nice heavily bordered rosy purple, white ground, plicata with a striking purple stripe down the center of the fall. The beard followed the 3/4" projection or prong, clear to its end. Most unusual.

Time forced us on and our next call was at Tehama where Mrs. Herbert Kerr graciously welcomed us to their garden. Mr. Kerr grows arils as a hobby and is very successful. His flower season was past as he lives in the Valley also, but he is most enthusiastic about next year and is planning experiments on soil and fertilizers to try to develop a hardier group of arils.

On to Oregon!—and rain. The farther north we went the closer to a second Spring we got—especially when we began to climb over the mountains. We saw tulips and early iris and buds to come. There was a cool tang in the clear air—fresh snow on the ridges and peaks; apple trees coming into bloom in the valleys. Here we began to notice Douglasianas and Innominateas along the roads and some were in bloom where they had the protection of big trees and undergrowth.

As we pulled into Fred DeForest's a ray of sunshine broke through and illuminated his beautiful planting—a rainbow on the hillside—then the rains came!!

It had been too wet for Fred to do much hybridizing, and he and Mrs. DeForest were mighty vexed at the weather outlook, so it didn't take much arm twisting to get them to climb in the car and head North with us. We traveled to Yakima, Washington that night and did outrun the rain, but the next morning was windy and overcast. We went to see The Iris Test and Easy Breeze Gardens and saw some fine things beautifully grown. We had to have Remember Me and Twenty Grand. Remember Me is a golden tan blend with a rosy flush on the standards; flaring and crimped edges make it beautifully appealing. Twenty Grand was even more crimped and fluted but did not have the color appeal for us, although it is a fine flower. Sarah Goodloe looked good, Royal Wish, Pretty Pansy and Masked Ball were all fine. Ruth is a beautiful flower—large, ruffled, clear yellow and has eye appeal. The tall stalk holds the huge flower with ease and it becomes a "must have" at first glance. It was equally as lovely for us—heat and all, which was quite the reverse of what it was having in Washington!

Purissamohr gave promise but wasn't too good on a one year plant. Belle Meade was very good. There was a ruffled seedling tentatively called Ruffled Elegance that was a Harriet Thoreau with Chantilly lace that was very nice. As the weather threatened to wet us down, we drove across town to Linse's Easy Breeze Gardens where we admired

For Sure, (the tan Lady Mohr), Mohresque, and his big Dreamy—a lovely white.

We headed South again—through rain and beautiful scenery. We visited Schreiner's and Cooley's between showers. The Schreiners had rows of dark lovelies and a fine display of Inca Chief and Pink Plume which we think is Schreiner's best thing in its color class. Colorglo is indeed a color gem in rose-pink and gold. Congo is very rich and impressive and Spotlight is an eye catcher.

Mr. Cooley has a new display garden in the making and here we saw a beautiful clump of Mary Randall. Solid Gold looked as rich and beautiful in the rain as it did at home in the sun. It is truly a great yellow. We saw George Murray's #88B—since named Dark Chocolate. It is a real cocoa brown, bronze beard, nice firm texture 48" tall, fair branching, a few reticulations but not objectionable and a very smooth flower. Pink Bouquet was good, but we were not too impressed with the other new things. It may have been the weather! We did note #49-32 a fine ruffled salmon pink that had a prominent orange beard. Tally Ho and Temple Bells were very outstanding in big clumps.

Dr. Kleinsorge's garden was full of treasures to come—especially a small color break which should appeal to flower arrangers. The standards were lavender orchid and the falls were golden tan with a bright orange beard—very different and dainty. His 369-49 has lavender standards and velvety red-purple falls—very flaring and handsome on a 42" well branched stalk. There was another brown closer to the color plate of Pretty Quadroon than Pretty Quadroon really is, and a very bright big yellow 515B—if anything could be better than Solid Gold, this is it.

Then on to DeForest's where we paddled around in our shoes and couldn't help but bow and pin a medal on Rehobeth, Cloud Cap, Frances Kent, Caroline Jane, Argus Pheasant and Al Borak and the perky and gay Sparkie and a new seedling named Lantana for their wonderful substance. They looked fresh and beautiful even though a severe hail storm had hit them while we were away and cut the petals like knives—they held up proudly and had all their flare and stiffness. Fred just doesn't bring them out unless they are good and can take it.

After a most enjoyable stay in the north country we headed south and believe it or not, just as soon as we hit the California State Line we came out into bright warm sunshine—most amazing!

When we reached home our lovely Louisianas greeted us with their piquant Southern charm and as they began to fade the Japanese or Kaempferi Iris came into flower and were perfectly gorgeous. For the little extra soil attention they require they more than reward you with huge beautiful blooms.

“SCORCH”

GUY ROGERS, Texas

This is intended as a factual statement of a malady known as “scorch” that has increased in severity during recent years in various sections. It is first manifest by the tips of leaves becoming brown. Gradually, the brownness continues downward until most, if not all, of the greenness of the fan is gone. This process takes several weeks. The roots are withered or have entirely lost their vitality depending upon the extent of the drying-up process. Sometimes, new roots appear before the foliage is entirely dead. The rhizomes will be perfectly firm and will yield no visible symptoms of bacteria or fungi. Rarely, though sometimes, soft rot will follow. Sometimes when a rhizome is left undisturbed or when it is placed in an antiseptic solution and replanted, it will eventually send up new shoots that will bloom the second year. Three years ago, I lost quite a few recent varieties which were replaced at the same spot in the same soil and without any type of treatment. Uniformly, these varieties have bloomed for the two succeeding years.

Normally, we have a hot, dry summer but gardens in this area have water connections. Usually, plants continue to grow until around the middle of November or the first part of December. The temperature was not below 31 in October and not below 28 during November. During the first two weeks in December it dropped to 17 and a few days before Christmas it dropped to 12 above. During January the temperature went as high as 73 but may be as cold as blazes in a few days.

In this area irises are never covered during the winter as they are in the Northern parts of the country. They stay relatively green all winter with, of course, some browning due to freezes. New increases are showing up even now. Normally, irises take a new start and begin to grow the latter part of February or the first part of March. Our normal rainfall is 27 inches and all of us locally soak our beds periodically during protracted dry spells.

Heretofore, this disease has made its appearance only during or shortly following the blooming season. This fall, however, it began to show up in this area around the 20th of October. The growth and increase had been normal or above during the summer and early fall. During the last few days, I have personally inspected the seven (7) local gardens of accredited judges. In the gardens of three of such judges, there is no “scorch” at all. On the lots around our home there is none and virtually none on the vacant lot in the same block. However, on the lots some 3½ blocks away, where I grow seedlings and

FAIRMOUNT GARDENS

Introductions for 1954

BEARDED IRIS

LAVISH LADY (Buttrick)	Large lavishly ruffled sea lavender violet.	
H.C.—'52.	38 in.....	Net \$20.00
MISS CHRISTINE (Watkins-Watkins)	Broad, rich creamy yellow. First introduction from Edward & Arthur Watkins.	39 in.....\$15.00
THE CITADEL (Watkins-Graves)	Magnificent, broad very pure white.	H.C.—'53. 38 in.....Net \$25.00
ICE CARNIVAL (Watkins-Graves)	Azure and white reverse bicolor, very ruffled. H.C.—'53.	38 in.....\$20.00
CAPE COD (Knowlton)	Pure white and velvety purple Amoena.	H.C.—'53. 36 in.....Net \$25.00
GAY HEAD (Knowlton)	Colorful, rich red and yellow Variegata.	H.C.—'53. 36 in.....Net \$25.00
GLOWING GOLD (Knowlton)	Brilliant, glowing deep golden yellow.	H.C.—'51. 36 in.....\$15.00
MYSTIC LAKES (Barker)	Large, clear medium blue, long season of bloom.	H.C.—'53. 36 in.....\$20.00
BURNISHED BLACK (Nesmith)	Blue-black as Black Satin. Large flowers, perfect branching.	39 in.....\$15.00
YULETIDE (Nesmith)	Fragrant, ruffled light blue, heavy substance, sturdy well branched stalks.	39 in.....\$15.00
DEMURE (Nesmith)	Pink and cream reverse bicolor. Delightful and different.	38 in.....\$15.00
GOLD ANTHEM (Douglas)	Bright gleaming broad petaled yellow, widely branched.	40 in.....\$15.00
FAIRMOUNT GARDENS,	as co-introducer with Brentwood Gardens, is pleased to offer the following Lilliput Hybrids by Douglas.	

HELEN'S CHILD. Beautiful powder blue. 8 in.

POGO. Bright red and yellow. 15 in.

TINKERBELL. Neat flaring medium blue. 12 in.

PICTURE YELLOW. Delightful yellow bitone. 10 in.

MERRY MAKER. Wine red, bright yellow beard. 10 in.

DARK STAR. Floriferous deep blue purple. 12 in.
\$2.50 each or Six for \$10.00

SMALL WONDER. Lovely clear medium light blue. 12 in.....\$3.50

For additional Fairmount introductions for 1954, see advertisements of Kenneth D. Smith and Jesse E. Wills in this Bulletin.

*Catalog with detailed descriptions of all Introductions
including Hemerocallis 20c*

FAIRMOUNT GARDENS

MRS. THOMAS NESMITH, LOWELL, MASS.

surplus stock, there is an appreciable amount though nothing like that which has appeared at another.

This last mentioned garden is brand new, the land having been dormant for more than 50 years. It consists of a little less than three acres and early last spring was plowed to the depth of approximately 8 inches, harrowed, fenced, water lines laid, raised beds made and coarse sand with some manure worked into some but not all beds. I watched its preparation and if there ever was a place calculated to grow irises well, it was this. The owner did everything in the world, without regard to cost, to make this an ideal iris growing plot. I would not have omitted anything he did and would not have done anything that he did not do. He cultivated according to Hoyle. In fact, believing that they would grow and increase better at his place than mine, I let him have some of each of four seedlings that I have felt justified in retaining, three of which were very scarce indeed. The odd thing is that each of these varieties have "scorch" at his place and not a one shows the least symptom at our place, only a half-mile distant.

In this new location the irises have gone from bad to worse with the owner estimating the affected plants to be in excess of $\frac{3}{4}$ ths of the entire planting. He obtained plants from all over the United States, mostly of new varieties. He planted hundreds of his own seedlings direct from the place of their germination. He moved some from his old place in Wichita Falls. The disease, however, is indifferent to every planting, indifferent as to whether a bed is fertilized or not, and indifferent to the place from which the rhizomes came.

A balled sample of an affected variety with its soil will be sent to any laboratory that is interested in seeking a diagnosis and a specific for its correction.

ADDITIONAL CONVENTION TOURS PLANNED

All AIS members traveling to Salt Lake City Convention via Boise, Idaho are invited to call Archer B. Carpenter, 2805 Teton Street, (Tel. 3-2373) for list of gardens and trek assistance. Boise show is planned for Saturday and Sunday, May 22, 23.

An optional visit to some of the gardens of Ogden, Utah is available for guests on Sunday, May 30th. Those who wish to go on the organized trip of these gardens should sign up for this trip as soon as they arrive in Salt Lake City.

New Introduction

GOLDEN SHELL. (Goodman, D. 1954) (New Gold x Spun Gold) 44"
Mid-season.

This is the result of 20 years in breeding, as it started in 1934 with PURISSIMA x a yellow Seedling of EILAH (Loomis).

If you will go back in the heritage of fine Iris, you will realize that a great many Winners have come from Purissima. Many fine yellows have been used in the development of GOLDEN SHELL, these include Happy Days (Mitchell) a leading yellow of the late 30's and a seedling of Golden Eagle, both of which have produced many fine yellows. NEW GOLD the pod parent was not introduced, though it had exceptional clarity of color and fine branching.

GOLDEN SHELL is a large deep golden yellow self. The standards are fully domed and entirely closed, with crimped finish like a shell. The falls are without haft marks or pinching. The golden yellow color is pure and clean without an overlay of darker yellow and it is one of the deepest yellows in commerce today. The flowers have very beautiful form, which is retained until they wither due to its heavy substance. Branching is wide and the flowers are well spaced on exceedingly heavy stalks, which stand up well in bad weather. It increases well and produces fine rhizomes, which in my garden do not multiply excessively, as is the case with many yellows, which produce too many offshoots and thus crowd the clumps.

I have a good stock, hence the low price of \$15.00 for a high grade Iris. Send Cash with order to

RICHARD GOODMAN

253 Bloomingbank Rd., Riverside, Illinois

or to co-introducer for Pacific Coast

HARRY J. PADDEN, GROVELAND GARDENS

Rt. 3—794 North Shaffer St., Orange, Calif.

Other Iris of my breeding, introduced 2 years ago by and now for sale by C. W. Tompkins, Sioux City, Iowa.

SPRING MOON an immense flaring light yellow 9" across the falls, a very spectacular performer.

ROYAL ERMINE a large creamy white with 3 to 4 branches and very heavy stalk.

Suggestions for Control of Iris Leafspot And Soft Rot

A. W. DIMOCK, N.Y.

Although the bearded iris is subject to a number of diseases, there are two which are currently widespread and of general importance. These are the common leafspot disease and soft rot. While both occur wherever iris are grown, leafspot becomes serious only in areas of frequent summer rainfall. In such areas spotting and early destruction of the leaves may occur most every year, while in more arid regions leafspot may never be important.

Leafspot

What leafspot looks like. As its name implies, leafspot is recognized by the presence of small tan spots, usually $\frac{1}{8}$ to $\frac{1}{4}$ inch across on the leaves. The spots on most varieties have a distinct reddish border, making them clearly distinguishable even after the leaves have dried up and turned brown. With some varieties the leaves may die back when only a few spots are present, while with others the spotting may be extensive before much killing occurs. In either event the end result is an unsightly, messy-looking plant.

What causes it. Leafspot is caused by a fungus known scientifically as *Didymellina macrospora*. The fungus survives the winter in old infected leaves on the soil or attached to the plant, or it may carry over as young infections on the green leaves or leaf bases which remain alive with winter. Spores produced in the spring on this infected material are carried by air currents and particularly by splashing water to the newly developed leaves and infect them. Soon, spores are produced on the new spots and are carried by air currents and splashed water to other leaves. Thus the cycle continues throughout the season.

Water is of great importance to the disease. Not only does it play a major role in distributing spores, but it also is necessary for those spores to germinate and infect. Furthermore, it appears that water or high humidity is important in the rapid growth of the spots and in the production of new spores. It is obvious why this disease is important in rainy areas but not in the more arid regions.

What to do about it. There are 2 principal methods of controlling leafspot: sanitation and protection with sprays. Sanitation is very important as a means of reducing the carry-over of infective material from one season to the next. Often sanitation alone provides adequate control. In the fall all old leaves should be carefully removed from the plants and from the surrounding soil. Also the remaining green leaves should be examined and cut back below any visible spots. All this material should be burned. A very thorough clean-up job can be done

when plants are being divided and replanted.

While good control may be obtained by sanitary measures alone, it must be admitted that often we do not get around to it in time or are not able to do a sufficiently thorough job. When this is the case a protective spray program becomes essential. Most of the older articles on this subject recommend either bordeaux mixture or sulphur, but neither of these materials is now considered satisfactory. Bordeaux—or any other copper fungicide we have tested—will cause severe injury to the leaves under moist conditions when a spray is most needed. Sulphur preparations simply do not give adequate control.

During the past 5 years a great many of the newer fungicides have been tested for iris leafspot control at Cornell University and one material has consistently stood out as the best. That material is known as zineb (short for zinc ethylene bis dithiocarbamate) and is marketed under the trade names Dithane Z-78, Parzate, DuPont Fungicide A, Parberk, Blitox 50W, Thiodow Powder, and others. These materials are used at the rate of 1 ounce to 4 gallons of water or approximately 1 rounded tablespoon per gallon. Just enough detergent (not soap) should be added to make the spray droplets spread out and cover the leaves and not ball up and run off. Since the amount necessary depends on the hardness of the water, the proper quantity will have to be determined by trial. Usually, less than a teaspoon of Dreft, Swerl, Cheer, or the like is needed for each gallon of spray.

The success of a spray program probably depends almost as much on timing and thoroughness of coverage as it does upon the material used. To be effective, the spray program must be started soon after spring growth commences and applications must be made *at least once a week* during periods of wet weather or active plant growth. Treatments may be made less frequently during dry spells, but remember that during wet weather the degree of control varies almost directly with the frequency of treatment. Even at best, a little spot may develop. In the Cornell tests, where applications were made weekly throughout the season, control varied from 85 per cent in one season to 99 per cent in the next.

Fungicidal dusts also will give fair control of leafspot but are not as good as sprays. Several dusts containing zineb and methoxychlor are available (e.g., DuPont Vegetable Garden Dust, Ortho Vegetable Dust). These probably would give good control of both leafspot and the young stage of iris borers if applied frequently and at a time of day when the plants are wet with dew. Dusts containing ferbam—a chemical relative of zineb—probably would give fair control also. Many such dusts are on the market.

Regardless of whether you choose a dust or a spray, you *can* control leafspot by a program of sanitation plus fungicidal protection if you really want to.

Soft Rot

What it does. Every iris grower probably has had the experience of noting a wilted and dying fan on a clump and then getting his fingers in a slimy, foul-smelling mess at the base of the plant when he started to investigate. The wilting and rotting may seem to happen over night, but in reality they are simply the last stages of a fairly long process. Often the rot is confined to a single toe of a clump, but sometimes the entire clump may be affected.

The cause. The rotting is caused by bacteria, known as *Erwinia carotovora*, which gain entrance through wounds in the rhizomes or the leaf bases. They will not infect healthy, uninjured plants. Often the rot is associated with borers, indicating that the bacteria enter through borer injuries. Possibly the borers even serve in some cases to carry the bacteria from diseased to healthy plants. Wounds made in cultivating also serve as points of entry for the bacteria. The disease appears to be favored by moisture at the base of the plants. Iris which are planted too deep or which are crowded by other plants seem particularly subject to rot, presumably due to higher moisture at the soil level. Soft rot has often been associated with the excessive use of animal manure.

No sure cure. At the present time no chemical treatment has proved effective against soft rot, hence control lies chiefly in minimizing those factors which would favor the disease. First of all, iris borers should be kept controlled by rigid sanitation and by the regular use of DDT, or perhaps methoxychlor. As mentioned earlier, these materials can be combined with the fungicides used for leafspot.

In addition to borer control, employ the best of cultural practices. Do not plant deeply and make sure that water will drain *away* from the base of the plants. Do not use heavy applications of manure around the plants. Avoid crowded planting and keep the beds weed-free at all times. Plant in full sun if possible.

If a valuable plant becomes infected it may be salvaged if the rot has not progressed too far. The rhizome should be lifted and thoroughly cleaned off. Then the rotted area should be carefully cut out and the rhizome soaked 15 to 30 minutes in 1 to 1000 corrosive sublimate solution (1 tablet to a pint of water). It should then be washed in running tap water, allowed to dry, and then carefully replanted in a new location. Although not always successful, this operation often has led to the resumption of healthy new growth.

LONGFIELD 1954 Introductions

Paul H. Cook Originations:

INCHALONG—Dwarf—(No. 746) Luminous pale lemon yellow. 4 inches.	\$3.00
DARK BOATMAN—(No. 3850) H.C., A.I.S. 1953. Exceptionally rich and solid colored deep violet. Stock limited.....	\$20.00
WIDE WORLD—(No. Imbri. 151). <i>I. imbricata</i> hybrid. A reverse blue and white bicolor. Large, beautifully formed.....	\$20.00

E. G. Lapham Originations:

DRESS REHEARSAL (Sdlg. A 3). A smooth self, much lighter in shade and more resistant to heat than Pacemaker. Fine.....	\$15.00
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Don G. Waters Originations:

TOPAZ (Sdlg. B51). H.C., A.I.S. 1953. A brilliant silky brown illuminated with glowing yellow. Stock limited.....	\$20.00
WATERMELON (Sdlg. 491). H.C., A.I.S. 1952. A luscious large Iris of blended greenish light lemon and deep watermelon pink...\$15.00	

*For more detailed descriptions send for our 1954 catalogue,
sent free upon request.*

**LONGFIELD IRIS FARM
BLUFFTON, INDIANA**

SOFT ROT NO LONGER A PROBLEM

G. B. GABLE, Minn.

The 1953 season was one of the best years we ever had for bloom. Nearly every variety bloomed 100 per cent. Little attention had been paid to "Scorch" in our garden as losses had been negligible and confined to the less expensive varieties which were promptly dispatched to the garbage can when scorch was found.

Suddenly reports began to come in from Oklahoma, Northern Michigan, Minnesota and surrounding states all telling of losses and inquiring for a treatment that would cure the disease that was destroying so many iris plants. About that time, Mr. Rea, proprietor of the company that manufactures Carco-X, visited my garden. Scorch had just been detected on two of my most valuable iris, Ballerina and Happy Birthday, and Mr. Rea asked me to conduct an experiment treating "Scorch" with Carco-X.

Tests were made using solution of 1 to 100 and 1 to 200 strength and each plant labeled with date of application and strength of solution. The solution was left standing in the garden to use whenever a plant was detected having scorch.

The experiment on scorch taught me a lot about the disease but proved unsuccessful. It was not regretted as a very important discovery was made. Perhaps I should have used a heading, "How I Discovered Carco-X Would Stop Soft Rot" because one day I was examining a heavy clump of Magic Carpet to see what the cause of some brown leaves could be. It proved to be Soft Rot and I picked up an old garden label and scraped the Soft Rot out of the rhizome rather carelessly. The sprinkling can containing the Carco-X solution was standing nearby so I just poured some of the solution on the rhizome without giving the matter much thought. Next day the rhizome was cured and dry as bone. I was amazed to say the least. After that experience I began searching for plants that might have Soft Rot so I could confirm my discovery. When friends asked what to do for Soft Rot, I poured out a sample from my gallon can of Carco-X and told of my experience and how to use it. Back came reports that it sure did the business. It did such a good job that I purposely neglected to thoroughly scrape out all the rot just to see what would happen. Always the same results, completely cured.

What I learned about Scorch may not be worth recording as it is perhaps already known, but it may be of interest to amateurs such as myself.

First:—Scorch starts with a withering or shriveling of the center roots of the rhizome. These shriveled roots cut off the nourishment and feeding of the plant. This causes the new center leaf to turn brown

and die. The browning of all of the leaves is sometimes delayed because the outside roots continue to feed the plant for some time after the center roots are destroyed.

Second:—That Scorch will spread through the entire clump of rhizomes which are attached to one another through circulation of the plant juices while rhizomes which are detached but in the same clump may not become infected. For the same reason, plants in the same row are seldom affected.

Third:—That the soil is not infected because I always replanted in the same location without removing or disinfecting the soil without Scorch reappearing in the same spot.

Fourth:—That the cause is the breaking down of the cells in the root system and is related to the wilts as a disease and that the starch stored up in the rhizome is the only factor in delaying a quick loss of the plant.

Conclusion:—That when Scorch is discovered in a single plant in a clump, that the clump should be divided and replanted immediately before the plant juices circulate through all the attached rhizomes in the clump. Infected rhizomes should be disposed of except that an effort to save valuable varieties may be made. The best cure I have found is to clip off the roots and leaves and let the rhizome lie in the garden path in the sun until the fall rains start. At that time new roots will be discovered growing from high upon the heel of the rhizome. I expect to experiment dusting the rhizome with one of the root producing harmonies and record my findings.

With all respect to Mr. A. J. Burton, Enid, Oklahoma, and his fine article on Scorch, I wish to take exception to his statement that Scorch only occurs in the early spring and never after the blooming season. Most Scorch loss last year in my garden occurred after the blooming season. A plant of Lady Boscawen which produced one of the finest bloom stalks in the garden became infected late in July and was discarded.

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Colorful Catalog Free
Early orders advised

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4½ Miles E. on U.S. 30, "The Peony City"
VAN WERT, OHIO

GARDEN EXPERIMENTS AND PRACTICES AND INCIDENTS

G. B. GABLE, Minn.

Sometime during 1952 I purchased a 100 lb. bag of Essential Mineral Elements and started my youngest son dusting it between the rows. Later I caught him laying it on as if it was fertilizer. I stopped him immediately but there was nothing that I could do to remove what had already been spread. The result of such a heavy application was the most colorful blooms in the garden (June 1953) and not a trace of leaf spot or disease of any kind and foliage dark green all season.

My son had his iris garden planted on new soil and due to excessive rains in July and early August the rhizomes grew large and tender. Mustard seed fungus or crown rot was discovered and had a good start. The rhizomes were planted deep so he pried them up high out of the soil using a spading fork. This broke off many of the feeding roots and the crown rot dried up in a hurry.

Very little leaf spot in that section of my iris garden where the hose will not reach. Sprinkling, rain, and dew cause the spores of leaf spot to multiply and spread. Apply water to roots but keep off the leaves in hot muggy weather.

Iris watered with Hyponex solution when bloom stalks were starting to shoot up produced extra tall specimen bloom stalks with flowers larger than average. The sprinkling can leaked and was half full of Hyponex solution. It was left sitting close to a plant of Twilight Sky in a full row of that variety. That plant produced a bloom stalk almost a foot taller than other bloom stalks in the row.

Our soil is a rich black loam with good drainage. At the lower end of the garden were three sand beds used for propagating phlox in former years. The sand was three or four inches thick and was spread out and spaded under. That section of our garden produces the best iris on the place.

After only ordinary luck growing William Mohr, I decided either to grow to perfection or quit. If this method succeeds I'll try it on some of the other Mohrs. The soil was prepared by working in peat and bone meal and the roots covered but the rhizomes were left about two inches above the surface. A frame was built around the bed with 2 x 4's on edge and sand was filled in around and over the William Mohr rhizomes. This should provide the hot, dry growing condition necessary to grow this hybrid.

A shipment of rhizomes was received at my garden several years ago. Under the dried leaves I noticed a black mildew but gave the matter little thought until the next spring when some of the rhizomes looked like dry sponges. That taught me to dip all rhizomes in a disinfectant before planting. Last year I used Carco-X solution and also poured the solution around the more expensive new varieties.

It probably takes longer for me to plant my iris garden than any other grower in the Twin Cities. I wonder if other iris growers would spend the time to open up trenches eight inches deep and ten inches wide, then mix fertilizer with the soil, fill the trench half full of peat soil and then spread the iris roots and cover with black dirt. This method was used last year. Will it pay off?

SOFT ROT—No Problem

One Treatment dries up Soft Rot over night.

I want all my Iris Loving Friends to know about this new product that works like magic. It is a liquid called CARCO-X.

I keep a sprinkling can containing CARCO-X solution in my iris garden all summer, and whenever Soft Rot is discovered I use a garden label or old spoon to scrape the Soft Rot out of the iris rhizome and saturate the rhizome and soil with Carco-X solution. Next day the rhizome will be dry as a bone.

Just add one tablespoon full of Carco-X liquid to 3 quarts of water, stir with a stick, then pour it on.

INEXPENSIVE AND EASY TO USE.

Be prepared. Order today. No time to spare when Soft Rot shows up.

Post Paid Prices:

1/2 pint	\$1.35	1 quart	2.85
1 pint	1.85	1 gallon	7.75

Gable Iris Gardens

2543 38th Ave., So.

MINNEAPOLIS 6, MINN.



NEW SLIDES COLLECTIONS AVAILABLE

Kodachrome slides received in the 1953 Slides Contest have been used as the nucleus for three new slides collections now available from the office of the Secretary of the AIS. Set No. 1, is for the Tall Bearded fan and contains nothing but close-ups of stalks and single flowers of the very newest introductions. Many of these pictures were taken in the gardens featured on the Boston tour in 1953. The slides are of very high quality. A printed lecture accompanies the slides and this should be of great help to those arranging a club program.

Set No. 2 also is of tall bearded varieties exclusively, but also contains a goodly proportion of pictures of the outstanding gardens in many parts of the country. A lecture also accompanies this set, and, also set No. 3, which is for those interested in branches of the iris family other than the tall bearded. This set includes pictures of Siberians, Louisianas, Spuriyas, Japanese, Evansias, dwarf bearded, Lilliput Hybrids, tall bearded and features especially, the new Onco-bearded hybrids stemming from Wm. Mohr and Capitola. Garden shots are also included. All three of these slide sets are new and have not been available previously. Rental fee is \$5.00, postage paid one way.

The Bulletin has just received the new catalog of 35mm. color slide rental sets of Dr. Philip Corliss, of Somerton, Arizona. Dr. Corliss lists sixteen different sets of iris slides in the more than 120 different sets of flower pictures. The sets contain from 50 to 400 slides each and the rental fees begin at \$5.00. Persons interested in these sets should send Dr. Corliss 10¢ for his 36 page descriptive catalog.

From the Originator

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CLOUDCAP

REHOBETH

and others

CATALOG FREE, ON REQUEST

Highlights of a Season Gone by

JOSEPH GATTY, N.J.

As this article is being written, the winter season is upon us and the optimistic thought lingers with us that spring and another iris season cannot be far off. It is the time of the year when we can look back quite leisurely at the iris season and events that are now of the past, and choose those which have etched themselves as highlights of a season gone by.

It was during the month of April that this writer had his first glimpse of the new dwarfs reigning supreme in their new colors in the garden of Mrs. Zeh Dennis of Chatham, N.J. Here, making themselves noticed among this fine collection were Mr. Welch's smooth and nicely formed variegata Primus and Mr. Cook's pale blue April Morn, both an asset to any iris garden be it large or small.

With the coming of the talls, the flowers of The Presby Memorial Garden must have got an inkling that it was a special occasion this year, as they appeared at their best for this garden's twenty-fifth anniversary. A great deal has been written about this garden in recent Bulletins, but only by visiting and viewing this panorama of color at its peak does one become aware of its great appeal to the iris fancier and general public. Here doing their best for this gala occasion were Happy Birthday, the light pink of lovely size and form, Pierre Menard, always the aristocrat and behaving like one, the new Ice Carnival which showed great promise of becoming the new favorite in blue-whites with a flare. Another new competitor for this honor is Mr. Smith's Breaking Wave. While the varieties mentioned are relatively new to the garden, the older favorites were not to be outdone by these new-comers and outstanding among those proven varieties were Sable, Minnie Colquitt, Lady Mohr, Priscilla, Ola Kala, all in large clumps and laden with bloom. A colorful tribute to a fine iris display garden and to its iris-wise guardian, Mrs. F. P. Walther.

May, 1953 cannot pass by without mention of The Iris Society of New Jersey and the active interest of all of its members. One thing that comes to mind is the excellence of the many iris displayed by Mrs. Eileen Donoho at the Regional Show held in New York City, well deserving of the exhibits highest award. Nor can we forget Mrs. Scott's award-winning seedling of this exhibit, Manhattan, a smooth tan of lovely form and color, and one which perhaps may give better results for us in Region 19, where this color group has proven a difficult one for many of us. One of the finest seedlings viewed was that of Mrs. Elizabeth Bellmer of Ho-Ho-Kus, N.J., a fine yellow self with style and

substance and very fondly named after her daughter Betty Jane.

These iris and events of the past season are only a few of the pleasant memories of iristime 1953. It is quite nice to dwell on past events, but even more pleasant to look forward to the events of the coming season. The plans of the New Jersey members of Region 19 are numerous for the coming year, and we look forward quite anxiously to spring, the iris and the exhibit of The Iris Society of New Jersey at Rutgers.

“HALF CENTURY OF IRIS”

WM. J. MCKEE & PROF. JAMISON R. HARRISON

The table of contents is the key to this compendium of iris facts and figures. The authorship is shared by Mr. W. J. McKee and Prof. Jamison R. Harrison with one chapter devoted to Louisiana irises written by Mrs. Lillian Trichel.

There are three general divisions to this book. Pages five to thirty-five deal briefly with such subjects as Irises, Their Culture, Amateur and Advanced Hybridizing, Line Breeding, Gene Mutation, Diseases and Raising Iris From Seed. The chapter on Louisiana Irises is here and also a short treatise on the American Iris Society.

Pages thirty-five to two hundred and forty-four record in detail the steps in the advancement of the tall bearded iris by individual color groups. In this section of the book there is also a complete record of the work of all breeders and hybridizers who have contributed to the advancement of the tall bearded iris. Forty-two breeding charts, many showing material never before published, are included.

The third section of the book records all of the major awards which have been made by the AIS and closes with a list of varieties by color. This highly technical and exhaustive treatment of the recorded progress of the development of the tall bearded iris should prove invaluable to the person interested in breeding. It is not recommended as light reading for the casual gardener.

McKee Introductions

TERRIFIC (1954)

(Radiation x Fairday) x Radiation

A large orchid pink self with a bright tangerine beard. The extra large 7½" flowers are of good form and substance. The largest pink iris we have seen. 42" stalk.....\$15.00

CHINESE WHITE (1952)

(Sno-Flurry x Wo-Peen) x (Katherine Fay x Wo-Peen)

A large exquisite pure white, no haft markings, wide well-rounded flaring falls. 42" stalk.....\$10.00

PONDER (1950)

(Helen McGregor x Blue Angel Wings) x Helen McGregor

A light blue iris self which does not fade, heavy substance and smooth texture. The nearest approach to spectrum blue I have seen. 38" Stalk. \$7.00

ERNELL (1953) Murdock-McKee

(Lights On x Redwyne)

A light red self. The lightest shade of red we have seen in any iris to date. 36" stalk.....\$7.00

EBEN (1953)

(Shiwassee) x (Mary Geddes x Helios) x (Miogem)

Large wineberry red self with metallic sheen. 40" stalk.....\$7.00

PEQUOT (1952)

(Lights On x Moontide)

Large red, no venations, remarkable breeder for reds. 36" stalk. \$7.00

MAYAN GOLD (1951)

A brilliant pure gold self, no venations. 38" stalk.....\$4.00

PLANET (1953)

A near red amoena of good form and substance. 36" stalk.....\$4.00

KIM (1951)

A white plicata with stitching of blue violet. 38" stalk.....\$4.00

FAIRDAY (1949)

A yellow bitone of large size. It has proven to be an excellent breeder for yellow amoenas. 40" stalk.....\$4.00

Terms of Sale, cash with order; shipments made during July and August by parcel post. I do not issue a catalogue.

WILLIAM J. MCKEE

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FACTORS AFFECTING REPRODUCTION AND VEGETATIVE DEVELOPMENT OF SEEDLING IRIS

M. D. WALLACE, Utah

Correlations between vegetative development and flowering habits of the modern iris have been made and these observations are reviewed in this paper. When flowers or capsules were removed as rapidly as they set, the plants continued to grow vegetatively. When fruit or capsules are allowed to remain on the plant and enlarge, vegetative development and the productions of blooms slows or is impaired. The steps in the inhibition of the development of the plant supporting enlarging capsules are:

- (1) loss in fecundity of blossoms.
- (2) decrease in size of flowers.
- (3) abscission of flower buds.
- (4) complete checking of terminal growth of new increase.
- (5) eventual death of all parts of plant except the capsule.

Such checking effects upon the vegetative development caused by developing flower stalks and capsules results from the near complete use of all the nitrogen in the plant. Carbohydrates, on the other hand are found to be stored in quantities in the developing capsules and other vegetative parts. General observations show that the more nitrogenous compounds available in the plant the more ease with which capsules can be set and developed. This does not leave us with the assumption that we must feed iris heavily on Nitrogen, but suggests they should have balance feedings of complete fertilizer having nitrogen. Seedlings having no increase in practically all cases are plants in which there is an unbalanced ratio between carbon and nitrogen. Nitrogen to feed vegetative increase is sacrificed to support flower stock, blooms and capsules.

Genetically few if any plants will ever be found that are completely blind or void of increase. Plants may vary in their assimilation and use of plant food, but can and will adapt themselves to their environment. Physically the plants sense abnormality if plant foods, water, heat, light, are limited factors. Any one of these factors will cause the plant to use all its strength to try and reproduce seed thereby sacrificing growth. These later points are within the control of the iris fancier. Removal of bloom stalks from plants having no increase would divert all the nitrogen compounds in the plant to the vegetative development in a new reproductive cycle.

Studies of growth factors of iris consider that all growth habits discussed can be described as internal food relations of the plant. These correlative factors are believed to result from a diversion of such a

large proportion of available foods to the development of flower stalks, flowers and capsules, that other organs suffer a deficiency and hence are checked in growth. Both developing flowers and capsules are organs of high assimilatory and respiratory activity and hence their maturation may result in a considerable drain on the available food supply. Some such observed effects in iris are due to a virtual monopolization of nitrogenous foods by the dominant organ. (In this case flower stalk and capsules.) Some cases may be caused mainly by diversion of carbohydrate foods to the developing flowers or fruits.

To reach a full solution to this problem of iris seedlings with no increase, one should review the culture of modern iris as has been previously described in other issues of the AIS Bulletins. Care should be exercised in adopting any fertilizer recommendations to various soil belts in the United States. Fertilizer deficiencies vary from region to region. Some soils are acid others basic; these latter two conditions play a great part in the availability of various fertilizer elements to plants. These factors should be understood and should be dealt with accordingly.

Hybridizers who are growing seedlings should give them every chance to develop vigorously the season before they are to bloom. Beds in which seedlings are to bloom should have generous amounts of compost added to them. Generous amounts of balanced fertilizers should be added. Some recommendations may be for single elements but this only aggravates the problem we are trying to avoid. Generally *Nitrogen* produces vegetative growth and development. Over use of nitrogen will produce all foliage and no flowers. *Phosphorus* alone may shorten bloom stalks but favors a greater number of bloom stalks, a greater number of flowers, greater number of capsule sets, also a greater number of seeds set. Phosphorus must be supplied the season before bloom. Nitrogen and Phosphorus counter the effect of each other and are the major elements used in plant growth. The chief role of *Potash* is the conditioning agent of the plant. Health, vigor, quality and resistance to disease are associated with this element.

Minor elements have their place and should be added accordingly.

When seedlings are discovered with no increase, their stalks should be removed after the first bloom. If the plant is worthy of keeping, the bloom stalks may be bloomed out in water. Some may insist on setting seed on the plant. In either case, supplemental feedings of nitrogenous fertilizers must be added. This will aid in filling the nitrogen requirement. The most recent development in feeding nitrogen to plants is the use of the organic compounds through the leaves. 'Nu Green' (a water soluble organic urea) has been used successfully by the author. The use of a wetting agent was necessary in using 'Nu Green.' The chief

factor in using the organic compounds is it is absorbed directly into the leaf tissue. This could help supply the immediate nitrogen which is so much needed in the plants in question. Best results are obtained with removal of the flower stalks after the first bloom, and then if it is worth keeping, take the corrective measure suggested to stimulate vigorous vegetative growth. Corrective measures should start as soon as bloom stalks are removed. The same procedure applies to new stock to obtain maximum increase.

PHOENIX IRIS SOCIETY ORGANIZED

Last March I invited a few friends who were interested in iris to my home and we made plans to organize a local society to be called the Rainbow Iris Club.

We wrote Lloyd Austin at Placerville, Calif. to help us start a display or test garden which we hope to present to the Valley Garden Center of Phoenix for the public to enjoy if it is a success.

As it consists mostly of Aril iris I am most anxious to get the results here in this dry climate which should prove beneficial to that type iris. We planted them last October in the open ground and they were all through the ground by the last of January. They are making rapid growth now especially Susiana.

We would like very much to hear from anyone who can give us help and encouragement. Iris for corsages and arrangements is our aim.—MRS. W. A. DONALDSON, 2731 E. Pinchot, Phoenix, Arizona.

A New Book on Iris "HALF CENTURY OF IRIS"

By

WILLIAM J. MCKEE and
PROF. JAMISON R. HARRISON

The book presents a record of valuable and widespread information, most of which has not been published heretofore.

It includes 42 breeding charts of outstanding varieties with descriptions in the various color classes.

Another special feature is a historic record of 200 hybridizers, listing their introductions and the crosses they made to produce the fine irises of today. This book also furnishes valuable information to those interested in the hybridizing of irises.

Price \$4.00.

Send orders to: WILLIAM J. MCKEE
45 Kenwood Ave.
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photo by Nathan

Mr. George D. Robinson, Mrs. George D. Robinson, R.V.P. Hubert A. Fischer, Mr. G. J. Boehland.

FALL MEETING, REGION 9 HUBERT A. FISCHER, RVP

The annual fall luncheon of Region 9 was held in Chicago on September 19, in the Charter Room of the Chicago Bar Association. Ninety-three members and guests were present including Registrar, Mrs. George D. Robinson and Mr. Robinson from Battle Creek, Michigan.

RVP Hubert Fischer welcomed the members and guests and told about some of the outstanding iris seen in New England. Dave Hall divulged some of his secrets on how to get new colors by the use of special fertilizer and Orville Fay told how it felt to be the winner of the Dykes Medal. Mrs. Robinson described the trials and tribulations of the Registrar.

The drawing of the door prizes is always awaited eagerly. The members were very generous with their donations and many fine new iris were presented. There were seventy-five door prizes and next year we hope to have enough so no one will be disappointed.

The meeting ended with the showing of kodachrome slides, among which we were proud to have four of the six winners of the 1953 AIS photographic contest.

NOTES FROM REGION NINETEEN

HARRIETTE R. HALLOWAY

Paging "Louis Bel"! Intermediate in height and season he has been so well liked, in our Cedar Brook Park Garden, that all rhizomes but one have been stolen! Where can we get him?

The Iris Society of New Jersey, an organization within part of this region, is arranging for a large iris show on Sunday, May 23. It is to be held in the Horticultural Laboratory of the Agricultural Department of Rutgers University, New Brunswick. The schedule lists seventy classes for specimens and nine for arrangements.

Any additional information concerning the exhibition can be obtained from Mr. Joseph Gatty, 225 Griffith St., Jersey City, N.J., who is our show chairman. Show schedules can be obtained from Mrs. Dorothy Dennis, Jr., 11 Meadow Road, Chatham, N.J.

Dr. Connors says that they have decided to hold their "Annual Field Day" at the same time although it is a week earlier than usual. Even so, because this is the second year after re-planting, there is likely to be plentiful bloom.

Cedar Brook Park, Plainfield—about twenty minutes from New Brunswick—is usually a mass of bloom at that time, in a beautifully designed garden—which, as far as we can ascertain, is the only public garden showing representation of all types of iris.

As this issue of the Bulletin comes through the mails, the Kenneth Smiths, who have been touring the Mediterranean, will have reached England. At the meeting of The Royal Horticultural Society on April 13 Kenneth is to be the speaker—a return engagement—on iris.

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B R E N T W O O D *Gardens*
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DETROIT IRIS SOCIETY ELECTS OFFICERS

Officers for 1954 were elected by the Detroit Iris Society at its annual meeting and luncheon, January 26th at the Red Run Golf Club, with Mrs. H. L. Armiger as hostess.

President.....	Mrs. James Arthur Valentine
Vice-President.....	Mrs. T. S. Bindshedler
Recording Secretary.....	Mrs. William J. Boustead
Treasurer.....	Mrs. Frederick H. Linscheid
Corresponding Secretary.....	Miss Ruth Osborn
Custodian.....	Mrs. Charles W. Burton

Each member present was asked to name an iris beginning with letter of one's last name and describe it fully as to parentage, type, color, blooming time, height, et cetera, which made an interesting member participation program.

Our regular meetings are held in the Art room of McGregor library every month except July, August and December.

Members of the Detroit Iris Society join with the Southern Michigan Iris Society in extending a warm welcome to iris fans and fanciers of Region 6 for the Regional meeting in June.

The child of our bosom is the Iris Display garden at the Detroit Zoological Park, sponsored and maintained by our society in conjunction with the park management.

Our display garden chairman is Mrs. H. L. Armiger to whom we doff our hat in unending praise.

LOTTIE D. VALENTINE

introducing

L A D Y R O G E R S

(ROGERS 1954)

A light blue self with extra large flowers, broad hafts, heavy substance, excellent form and white beard, as blue as a hitchhiker's thumb on a cold day in Iceland, *not purple* as the wrinkled feet of a grape presser in a Sicilian winery come late afternoon, but *blue*, that is, as blue as the lovely turquoise from the labyrinthine depths of a Persian mine that reflects the faint blush of its mirrored beauty in the fading rays of an evening sky! Stock very limited. Delivery in June only. H.C., AIS, 1952.....Net \$25.00

only former introduction

S-E-N-O-R-I-T-A I-L-S-A

(ROGERS 1953)

A large homozygous recessive white self from two fine blues, with excellent form, substance, height, branching and ruffling; having domed standards and rounded falls, unusually broad at the haft. H.C. 1952 and H.M. 1953.....Net \$15.00

GUY ROGERS, P.O. Box 354, Wichita Falls, Texas



Left to right: Mrs. Henry W. Blenis, M. J. Brownell, and L. F. Randolph.

EMPIRE STATE IRIS SOCIETY FORMED

An Empire State Iris Society was formed by members of The American Iris Society at a regional meeting in Elmira, (N.Y.) November 21, 1953. The business meeting was preceded by a banquet at the Tom Sawyer Motor Inn, with about 100 members from all sections of the state in attendance. Dr. L. F. Randolph of Cornell University, and

Chairman of the AIS Scientific Committee was guest speaker, and gave an informal report on the recent Directors' meeting held in Cleveland.

By-laws of the new Society were presented and accepted, and the following officers named:

President, Mrs. Henry W. Blenis; First Vice-President, Mrs. H. A. Laidlaw; Second Vice-President, J. L. Lewis; Secretary, Mrs. G. H. Emery; Treasurer, J. C. Stevens; Directors, M. J. Brownell, Harry Shaffer, and Edwin Rundlett.

Approximately 40 members attended a breakfast meeting at the home of Mr. and Mrs. G. H. Emery, on November 22. At this meeting, the President appointed chairmen, as follows:

Editor of Newsletter, Mrs. H. A. Laidlaw; Membership, Miss E. Mildred Bradley; Publicity, Mrs. G. H. Emery; By-laws, Warren A. Smith; Flower Shows, Mrs. A. W. Bender; Iris Improvement—Planting, J. L. Lewis; Hybridizing, Dr. Irene Van de Water; Auctions, Mrs. Frank Martz; Slide Library, H. C. Porreca; Convention, M. J. Brownell; Letter Robins, Mrs. Clare C. Foster and Mrs. E. C. Dunbar.

Chairmen of Area Activities are: Mrs. A. T. Roosa, Mrs. W. B. Melnick, Mrs. Fred Garr, Warren A. Smith, Mrs. J. C. Allison, L. G. Harder, E. L. Bisdee, and Mrs. G. H. Emery.

New Prices for 1953 Introductions:

BLUE STEEL H.C. '52; H.M. '53 (Fraim '53)

Missouri x Lake Shannon \$16.00
Smooth medium blue self. Heavy substance and exceptionally flaring falls. Height about 38". Distinctive in shape and coloring. Quote from garden review, "Nicely formed and well branched and an altogether fine iris."

LAKE WALDEN (Fraim '53) \$12.00
Sister seedling of Blue Steel. Outstanding bi-tone blue. Standards light blue with much deeper blue falls and blue beard. Good substance. Height 40". Mid-season to late. Beautiful, very blue effect in garden. Quotes from garden reviews; "Distinctive and lovely blue." "The outstanding blue of the whole day; it is rich and fairly dark."

Orders Are Now being Accepted for These Two Beautiful New Blue Iris

Also Let Us Send You Our New Beautifully Illustrated Catalog Featuring:

1. THE NEWEST AND FINEST IRIS.
2. CHOICEST AND RAREST DAFFODILS. The best of the "NEW PINKS" and prize winners from Holland, Ireland, England and Australia.
3. NEW HYBRID LILIES: Our lily offerings will be greatly increased in 1954 with new "MID-CENTURY HYBRIDS" and the "World's Most Beautiful Lily," JILIAN WALLACE, and many other fine new varieties.
4. NEW HEMEROCALLIS. A limited but choice selection of the finest DAY LILIES.
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PRIDE'S

BOX 431, WORCESTER, MASS.

Our Members Write . . .

I have just received and read the January Bulletin and wish to express my approval of the "new look" to the cover. I have long felt that something besides the old pure white covers would be more practical. This new slick paper has its advantages and with good clear pictures it is very attractive.

I cannot say that your article Confusion Confounded meets with as much approval. In fact I wish to make a strong protest against your suggestion of considering the bearded iris season as a whole when using symbols to indicate time of bloom. As long as DB, IB and TB are used they are a definite division of the iris season in themselves and to add consecutive numbers to indicate time of bloom would be much more confusing than allowing each section to use letters to indicate the time of bloom in their individual seasons. A TB iris labeled TBM would be more easily understood to mean a midseason TB than if it were listed as TB5. A DB listed as DBE is very clearly an early dwarf bearded, and the same would apply to the other groups.

I would also assume that a DBL would be apt to be in bloom along with an IBE and a DBVL could be blooming along with an IBM. And it would not tax our minds too much to see that a DBVVL (who'd want one?) and an IBL and a TBE would be blooming at the same time.

Your statement "The important thing is, I think, to revert to the ideas of those who originally designed our Check List system . . ." Why revert? Not many people would consider reverting to the horse and buggy mode of traveling just because that was the best way that our forefathers had of getting around. The present trend of using letters to designate the season of bloom in each individual class seems to fit our present needs and answers a universal

demand of knowing what we are buying.

Why does this system have to be confusing to the Registrar if each person registering an iris places it in its proper class when applying for registration? If a DB iris is entered as a DBE why can't it be just that without any further bother. If it is listed as "blue" the Registrar takes that statement without question and saying that it is a "DB blooming the first week in April" would not mean a thing in judging its status for here, a DB blooming at that time would be a DBE while in the south an early April blooming dwarf would be a DBL or even a DBVL.

Since the modern irises have so many variations in time of bloom in each section it would seem to me much simpler and clearer if each section were subdivided with letters indicating time of bloom according to its section.—MRS. W. R. HUBBARD, Rochester, Wash.

In answer to Miss Karen A. White in regard to her Japanese iris browning and dying: I grow Japanese iris, but have had no such experience as hers, but if she is using lime on or near the iris, or even bone meal (which has lime in it) that may be her trouble. The borer also attacks Japanese iris.

I also agree with Paul W. Horn about our lush iris today. Some years ago it was necessary to add a room to our house, and the only place to add it was a corner where I grew perennials. As they were common flowers, mostly iris I just left them there, and the carpenter built the room over them. The only light they got was a small door on the south side, and what water washed under in heavy rains. Two years later the iris were still there, bleached pale green, but growing. I'm sure no Dykes Medal iris could stand that treat-

ment.—MRS. R. S. BEAUMONT, S. Highland Ave., Oakdale, Pa.

Halloween Night (Weed 1943). No spring 1953 bloom. Fall bloom started October 21, 43" high, 5 branches and over 18 buds. Second stalk opened first bud Oct. 23, had 6 branches with over 20 buds, all of which bloomed even though stalk was cut in early November and taken indoors. Third stalk was 12" high when stopped by 23 degrees Nov. 4. Very nice flower, deep yellow with falls veined red-brown, flower 4 x 5".

October Shadows (Brown 1952) S. pale lavender, F. Blend of lavender and brown. First stalk opened bloom Oct. 1, 36", with 5 branches and over 16 buds all of which opened outdoors. Three more stalks, all same size, bloomed during October for quite a show. No spring bloom on this one either.

Autumn Twilight (Brown 1948) S. tan-yellow, F. pinkish lavender with orange beard. Nice color. Spring bloomed May 20. Fall bloom, first stalk October 3, second Nov. 1 and was taken indoors. Three branches with about 12 buds.

Harvest Blue (Brown) Best of the fall bloomers, S. medium lavender blue, F. deeper blue and flaring. No spring bloom. Fall bloom started Sept. 28 and continued to Oct. 20, 4 stalks with up to 5 branches and 16 buds, 30" high.

Bountiful Blue (Hill), small lavender blue self, not too good but a prolific increaser and bloomer. Spring bloom April 27 on two stalks. Fall bloom started October 1, with three stalks, later other increases sent up four or five more stalks.

Priority (Lapham 1945), spring bloom May 16, fall bloom October 3 to November 4. Velvety crimson red flower, nice, but stalks were weak.

Polar King (Donahue 1939) Best white rebloomer. Spring bloom May 10, fall bloom started earliest of all, just four months and four days later on September 14. Two stalks with about eight buds, but long lasting flowers in cool

fall weather and was still in bloom October 26. Some flowers lasted four to five days.

Eleanor Roosevelt, an older iris that has now grown into a clump, but deserves mention because of its extreme hardiness. It was planted in another part of the garden and not given the deep watering required for early fall bloom. First bud opened late in October. Five other stalks were caught by the 23 degree weather November 4, four withered but one stalk surprised me by continuing to grow in the warmer weather following that first week in November and bloomed indoors late in November. In spite of several nights in the high 20's, there is still another stalk that persists in growing and is about five inches tall. This should be a good iris to use for hardiness, but I can't seem to set pods on it.

Pods were set on four or five iris and picked November 4 when the temperature dropped so low. Seed were left in water indoors to see if they would ripen. Some look as though they should germinate.

I was really surprised at the fine show put on by the fall bloomers and it was interesting to the neighbors as well. Created quite a sensation at our Fall Banquet by cutting several stalks for a bouquet.—EARL R. ROBERTS, 2308 Roosevelt Avenue, Indianapolis 18, Ind.

1953 was my first year in the AIS and I want to tell you how much I appreciate the No. 132 Bulletin. Especially "Dykes Medals Made Easy," "Varietal Comment" by E. H. Jones and Our Members Write and Robins Roost.

To be truthful I was feeling sort of the way Mrs. David Hutchison wrote about, neglected. I do forgive you after number 132.

I have a suggestion for you for what it is worth. While the country is divided into regions we don't know what climatic conditions are in the other regions. Take us for instance, our temperatures run from 100 in the summer to 10, rarely lower, in the winter. Our

humidity is high. Washington, D.C., for instance, is at or slightly below sea level, while ten miles away, we sit on a hill that is 500 feet! If we know the climate, elevation, etc. of the various regions we could compare them to our own conditions and thereby profit by the experience of others. By the way, how much difference does elevation make? Humidity?

I would agree with the person who said they thought entirely too much space is given over to garden tours. I agree, it is interesting to know what varieties do well or poorly, where and under what conditions, and it is fun reading about one garden tour. But they are all alike, just different gardens.

—MRS. F. S. DEMENT, Capitol View Park, S.S. Maryland.

EDITOR'S NOTE—Thanks for your comments, and at the moment I don't know what to tell you about the climatic question. There is a climatic map that was put out by some horticultural organization and if possible I am going to get a copy of this and run it sometime in the Bulletin.

I am delighted with the new cover on the January Bulletin just received. Because of its size, it is usually on the top of my pile of current magazines and I had always wished the cover looked a little more attractive.

May I ask a favor? Some time ago, perhaps two years, an issue contained a picture, and I think an article, of an iris marker some person had designed for his or her front lawn. It appealed to me very much and I would be quite willing to buy a copy if you happen to have an extra one.

It has been my practice to leave a Bulletin on the table in the iris garden during the blooming season when it is open to all iris lovers. Probably this particular issue went the way a good many have and became spoiled by being out in the rain.

May I say at this time, also, that I thoroughly enjoy the Bulletin. Although I do not breed iris, it is interesting to read about the experiences of those who do. Hope some time to attend a convention. They always make for good reading.—MRS. ROSS L. KING, R.D. 1, Camillus, New York

In the AIS Bulletin of January 1954 you ask for a frank statement concerning the "new look" on the cover. Here it is. I do not like it! Why? It is just another magazine and can even be confused with a seed catalogue. It has lost the distinction that it had when placed in the home. It can easily be mislaid by a member of the family.

I love those pictures. They add interest but I prefer them on the inside and may the cover keep the usual distinction when at a glance I can say, "That's my AIS Bulletin." — MRS. CLYDE HUSSelman, Waterloo, Indiana.

The new cover for the Bulletin is heartily approved as a step in the proper direction. Keep it up! Add to it to further increase value to the casual reader as well as the serious student of iris.

To that end we submit the following suggestion with the sincere belief that it would be of service and value to all members:

Devote space in each issue to photos of some of the newer varieties on which many pages of print appear long before even a small percentage of the membership can actually see them. For example, Ruffled Organdy was given considerable more space than needed in one report alone. This could have been of considerable more worth had the variety been reported on from different sections, East, Midwest, West, then the report would bear some weight, as of now, the impression given is that Mrs. C grows her things better than the folks down the road a short distance.

Why not eliminate the full page

KENNETH D. SMITH

Introduces in 1954

SOUTH PACIFIC (H.C. '52)

The purest blue iris seen to date. Magnificent flowers of wonderful substance, are broad petaled, beautifully shaped, ruffled and flaring. The plant is vigorous, foliage handsome, flower stalks numerous. Child of Cahokia x Lady Ilse; it was named for the well known play.

Net \$50.00

EAST INDIES (H.C. '53)

Rich colors are smoothly blended in a large ruffled flower of splendid proportions; the overall color effect is cafe-au-lait with an undertone of rose and an elusive violet sheen; quite difficult to describe, but greatly admired by those iris fanciers and judges who have seen it.

Net \$25.00

SILVER HAWK (50-62, H.C. '53)

Silvery cream with chartreuse sparkle; satin smooth flowers of remarkable substance on tall stalks. Silver by comparison with Golden Hawk, its pod parent; ruffled flowers are its heritage from pollen parent, Spanish Peaks.

Net \$25.00

Above introductions available only through

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photos of mass effect, either iris or people? Each quarter show perhaps four varieties, single stalks in their entirety complete with foliage, one page would handle four iris nicely. Give all the pertinent data of each as to color, height of plant in picture, with the exact location identified as to state, city and in whose garden each was grown.

I really think a feature like this would be very welcome, surely we would all be happy to see just what a much-publicized iris has to offer, pictures are the only means of accurately giving an unbiased report, if we see what it has in branching, placement, bloom and general growth and still want the thing in our own garden enough to lay out the cash, then we should have a lot less complaints that the hybridizers and introducers are the villains.

Personally I would also welcome all the data related to the taking of each picture as well, include f. stop, speed, lighting, etc. Any iris lover who is not a shutterbug is missing half the pleasure, good pictures have played a very important part in this flower world. Let's consider the possibilities open to a feature of this nature. Who knows, it might even tend to raise the esteem of the introducer who now hangs on a hook because of disappointment over something which could have been easily avoided. Thank goodness we all don't have the same taste in iris, (or roses) let's keep the roses out of this!

In any year when the Dykes is awarded, the award winner, together with an inset of the originator, would be a very

suitable cover subject. — TOM M. BROWN, Rt. 4, Box 145, Walla Walla, Wash.

I am relatively a new member of the AIS receiving my first Bulletin with the July 1951 issue. I can hardly wait each January, April, July and October to receive my copy.

I read each issue as if it were my "Iris Bible" and come back to review each issue marking with a red pencil those articles and parts of articles which are of the most interest to me at that time. Then later I go through back issues, grouping articles of similar interest to carry on my iris study.

I think the January 1954 issue is absolutely wonderful and not only in the "new look" which is a right step forward—to be followed by COLORED COVERS some time in the future, but the editorials are well balanced, of great interest to me and my wife.

Mrs. Helen Diehl is doing the hybridizing for our garden and 1953 was her first year of serious work. Need I even mention the good advice both she and I get from the many articles that have appeared in the eleven Bulletins that we have received.

Mr. Editor, your Assistant Editor and your Associate Editors as well as the Officers and the Board of Directors of the FINE organization—The American Iris Society, may Mrs. Diehl and I offer you a "vote of confidence" for the excellent work you are doing.—WILLIAM C. DIEHL, Las Trampas Road, Alamo, California.

Wallace Gardens

A Cordial Welcome
To All Convention Guests

LET'S MAKE IT A DATE
TO THE HOME OF NEW, LOVELY

Cathedral Bells

An excellent Baby Ribbon Pink with the new fluting break in form.
Called by many the pink of the year. Charm personified. C.C. '51.
H.M. '53. Height 42 inches. Net \$15.00

Other Introductions

CENTENNIAL SUMMER '54, lovely blend.	Net \$20.00
FABIOLA '54, orchid lavender.	\$15.00
SPIC AND SPAN '53, huge cream, C.C. '51.	\$10.00
RED CHARM '53, garnet red.	\$ 5.00

COMPLETE CATALOG DESCRIPTION ON REQUEST

Wallace Gardens

417 SOUTH STATE • OREM, UTAH

1953 REGISTRATION REPORT

MRS. GEORGE D. ROBINSON, *Registrar*

The annual registration report for 1953 contains 553 registration items. Not more than fifteen of these are corrections and delayed or supplemental 1951 registrations which were never before recorded, leaving a total of about 540 new registrations for 1953.

Snow Flurry again this year was the parent most often used; Great Lakes is still second, with Pink Formal third. Closely following are Chivalry, Helen McGregor, Ola Kala, Chantilly, Spun Gold and Solid Mahogany.

Region 13 led with 62 registrations; Region 6 followed with 55; Region 1 had 44, Region 7 had 42. Region 10 had 41 registrations, Region 21 had 37. The great state of California gave 62 registrations, but the state is divided into two regions.

This report omits symbols except the necessary ones for official color classification, which are simplified so far as possible. These symbols should not be difficult to understand, used in connection with the Official Color Classification shown below. The color pattern symbols precede the numeral; letters follows that numeral show only the depth of color, such as P (pale), L (light), M (medium), D (deep or dark).

Where two letters precede the numeral, they designate two colors, by initials, necessary to show the color effect—VB for violet-blue, BV for blue-violet, OR for orange-red, and so on. Any difficulty experienced in reconciling shades or tints of pink with this color classification will be explained by consulting the Wilson chart which is now the one officially used.

It will also show more clearly why tans are classified under Yellow, some buffs and browns under Orange, and others under Red.

OFFICIAL IRIS COLOR CLASSIFICATION, 1949 Revision Color Pattern

Predominant and governing color	Selfs	Plicatas	Bitones	Bicolors	Blends
White	W1	W2	W3	W4	W5
Violet	V1	V2	V3	V4	V5
Blue	B1	B2	B3	B4	B5
Green	G1	G2	G3	G4	G5
Yellow	Y1	Y2	Y3	Y4	Y5
Orange	O1	O2	O3	O4	O5
Red	R1	R2	R3	R4	R5
Black (Niger)	N1	N2	N3	N4	N5

The *background* color of the *standards* governs for official color classification. This is because the standards are considered the true petals, and the falls are the sepals.

For explanation of type classification in this report, please consult the "Revised Classification of the Bearded Iris" beginning on page 3 of Bulletin 109, April, 1948. This explains Eupogocyclus hybrids, Eupogoregelia hybrids, and others, and contains information with which registrants should acquaint themselves.

February 15, 1954

MRS. GEORGE D. (FERN) ROBINSON,
Registrar.

DELAYED 1951 REGISTRANTS AND REGISTRATIONS

CLEVENGER, Dr. Lewis, 824 E. Patterson Ave., Kirksville, Mo.

SONATA IN GOLD. Registration begun and believed completed by Registrant in 1951, but apparently omitted from 1951 registrations.

DAVIS, Vernon L., 709 Monroe St., Gretna, La.

BETTE LEE. Registrant received Certificate of Registration, but registration itself was omitted from 1951 report.

GORTON, Mrs. J. M. (Clare), South Lake Shore Dr., Box 588, R. 4, Shreveport, La.

POLKA DOT. Registrant received Certificate of Registration, but registration itself never appeared in 1951 report.

REES, George N., R. 1, Nixa, Mo.

AMAZING GRACE. Registration completed in 1951 and Certificate received, but registration does not appear in 1951 report.

1953 REGISTRANTS AND THEIR REGISTRATIONS

ALBRIGHT, Margaret Y., 2101 E. 45th So., Salt Lake City, Utah.

AMELITA, GRACELLE, 'LASSES TAFFY.

ARCENEAUX, Mrs. E. P., R. 2, Box 50, Lafayette, La.

EASTER SURPRISE.

AUSTIN, LLOYD, Rainbow Hybridizing Gardens, Placerville, Calif.

BRILLIANT ROSE, CRIMSON BEAUTY, EL DORADO BEAUTY, FANCYANCY, GOLD CASTLE, GOLDEN BUTTERFLY, MISS MOHR, MOHR ELEGANCE, PERSIAN MOHR, PINK MAID, RED GOLD, SCARLET TIGER, SUNSET FLAME, WINTER FLAME.

AYLETT, K. E., for W. P. Aylett, deceased, Mangoplah, Via Wagga Wagga, N.S.W., Australia.

ALICE HINKLEY, CARBON COPY, Mrs. R. E. AYLETT, WM. P. AYLETT.

BABSON, Sanford L., 1237 So. Orange Ave., Covina, Calif.

FIGURINE, NELL BABSON, YUCCA.

1954 Introductions

SPRING MELODY

Brilliant yellow self of heavy substance. Wide ruffled and fluted petals of flaring form. Does not fade. Medium late. 40" tall.
Each \$20.00

RUFFLED TAFFETA

Large heavily ruffled lavender. Wide petals flaring falls, closed standards. Exceptional substance. Vigorous grower. Mid-season. 40" tall..... Each \$20.00

NATURAL COLOR CATALOG

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MOUNT MAZAMA.

BAILEY, Arthur, Monroe, Wash.

BLACK CHILD, DORCAS ANNE.

BARKER, M. J., 458 California St., Newtonville, Mass.

AMIDA, BONNY BAIRN, RED DANCER.

BARTON, Thelma G., 15 Minott St., Gardner, Mass.

ANTIQUE RUBY, DARK MOON, GRAND LADY, GRAND SIR, NORJACK,
RE-ECHO, SEABIRD, TAHANTO.

BEACH, George R. Jr., 1000 Waukegan Road, Lake Forest, Ill.

ETON, SHERPA.

BENBOW, Rev. D. E. and Mary, Christ Church Vicarage, 48 Old Road
East, Gravesend, Kent, England.

SAFFRON CHARM.

BENSON, Clifford W., 1201 Verl Place, St. Louis 14, Mo.

FLIRTATION.

BRIGGS, John L., 2316 March St., Kalamazoo, Mich.

CHIEF GOODMAN, Miss KALAMAZOO.

BROWN, Dr. G. Percy, Broad St., Barre, Mass. Summer, Central Vil-
lage P.O. Mass.

FALL PRIMROSE, FALL VIOLET.

BROWN, Opal L., R. 4, Box 145, Walla Walla, Wash.
ALTAR LIGHT, CAPTAIN'S LADY, GOSPER, INSIDE PASSAGE, SAN JUAN
GLORY.

BROWNELL, M. J., Mt. Upton, N. Y.
SUN BEAU, SWEET WHISPER, TRAILMASTER.

BRUMMITT, L. W., 30 Bloxham Rd., Banbury, Oxon, England.
ELIZABETHAN RED, HEADLINES.

BURCH, J. E., Box 35, Raytown, Mo.
EVELYN RICHEY, KATHRYN GRUBER, MARVEL BURCH.

BURNS, Mrs. Edythe, 1707 77th Ave., N., Minneapolis, Minn.
CANDY KISSES, GLORY ROAD, LAVENDER HILL, LUCY LILT, LINGERING
LIGHTS, SASSY SALLY.

CARNEY, Robert S., 3551 Midland, Memphis, Tenn.
CELEBRITY, LUSCIOUS, NASHOBA.

CARPENTER, Carl, 115 E. 19th St., Owensboro, Ky.
ANTIQUE, FAIRY GOLD.

CAVAGNARO, Mrs. Emanuel, 2566 Yale Ave., Memphis 12, Tenn.
ANY TIME.

CHRISTIE, Mrs. Dorothy, Putiki, Wanganui, New Zealand.
PINK PETALS.

CHOWNING, Frank E., 2110 Country Club Lane, Little Rock, Ark.
CREOLE COTILLION, PROMISED LAND, SHEER DELIGHT, SUNLIT FIELDS.

NIGHT PATROL ('54) #49-06 (The Admiral x Dymia)

A consistent traffic stopper. Rich, smooth deep violet-blue self with matching beard. With stiffly flaring, rigidly held horizontal falls, this distinctly different Iris resembles a black butterfly in flight. Mid-season. 38"—H.C. '50.....Net \$15.00

NORWOOD ('54) #50-24 (Amandine x Mattie Gates)

A waved and ruffled cool lemon-cream self giving a chartreuse effect in the garden. Standards are arched; falls semi-flared. A welcome addition in this color range. Mid-season. 38".....Net \$15.00

STARLIFT ('54) #52-2 (Tosca x Distance)

This enameled-textured deep cornflower blue is truly a stunner—probably one of the smoothest Iris in this register. Large, rounded and full, the flower is heavily ruffled and waved and is self colored even to the fall, very broad hafts which are solidly shaded with blue. Mid-season. 40".....Net \$15.00

**JOAN CRAWFORD ('54) #52-3A (((Tosca) x ((Azure Skies x
Great Lakes)) x (Distance)))**

This Iris had to be most outstanding—and so it is. Combining the excellent qualities of its parents, this exquisite, finely chiseled silvery-blue self presents a picture of loveliness and serenity comparable to its namesake who unhesitatingly selected it as her favorite. Full-petaled, heavily substanced and stylish, the beard is white-tipped; standards are domed and firmly closed; the falls semi-flaring and attractively rippled. Truly an impressive Iris that will please the most critical. Mid-season. 40"—H.C. '52. SOLD OUT FOR 1954

BELLERIVE ('50) (Birchbark x Gallant Leader)

A 40" Stalwart, heavily substanced ruffled deep cream. Mid-season. H.M. '50; Winner of President's Cup '52.....\$3.00 ea. 2 for \$5.00

TOSCA ('50) (Brunhilde x Cloriole)

A 38" ruffled lavender-medium blue with heavy substance, domed standards and broad, semi-flaring falls. Striking and commanding. An excellent breeder for ruffled seedlings. Mid-season. H.M. '50.....\$3.00 ea. 2 for \$5.00

CLIFFORD W. BENSON
1201 VERL PLACE • SAINT LOUIS 14, MO.

CLARK, Hattie Bradford (Mrs. C. C.) ; 412 Pierre Mont Road, Shreveport 16, La.
ROSE SURPRISE.

CONGER, Sidney L., 609 So. Hazel, Arcadia, La.
ELLA B. DAVIS, REBECCA BUTLER, ROYAL VELOUR.

COOK, Paul H., R.R. 4, Bluffton, Indiana.
DARK BOATMAN, DEEP BLACK, INCHALONG, WIDE WORLD.

COOPER, Annie A., "Cooperstonia", 301 Main St., Oxford, Alabama.
ALABAMA GLORY, ANALA, AUTUMN TRAIL, BROWN SHEEN, DEBBY,
DECOR, FUCHSIA JEWEL, GOLDEN CHAMP, LUSTROUS PINK, VIRGIN'S
BLUSH.

COREY, Mrs. Preston E (Miriam E), 707 Pearl St., White Oak Farm,
Reading, Mass.
CHERITO, GARNET ROYAL, GUSSIE, SURGARPLUM.

CRAIG, Thomas, Star Rte., Box 315, Escondido, Calif.
AAHME, ALMOND BLOSSOM, BALDY, BAMBOO, CORONATION TAPESTRY,
GLOWING AMBER, GLOWMOHR, GOLDEN TAN, HEATHERLANDS, CUPID'S
DART, MAUVEDUST, MOURNING DOVE, PORT, SPICE, ZULU WARRIOR.

CROSBY, Mrs. Luzon, 306 West 400 South, Orem, Utah.
GOLDEN CORONA, HIGH FASHION, KANAB, LITTLE SWEETHEART, ON
PARADE.

CULBERTSON, Edna L., 1290 Pacific Ave., Salt Lake 4, Utah.
EDNA CULBERTSON.

DARBY, G. W., England (Welwyn, Herts).
CHANCELOT.

DARNELL, W. G., 8 Brambledown Rd., Sanderstead, Surrey, England.
MILLAMONT.

DAVIS, Claude W., 470 Delgado Drive, Baton Rouge, La.
BIG WOODS PURPLE, BOY BLUE, FLAT TOP, GHEENS WHITE, HIGH
HAT, HIGH VOLTAGE, JUST KATE, LAGNIAPPE, OLD CREOLE, YELLOW
SUNSET.

DEFOREST, Fred, R. 1, Box 70, Monroe, Oregon.
ALL HONEY, BLUE SNOWFLAKE, REHOBETH.

DENNIS, Paul, R. 9, Box 890, Springfield, Mo.
SILVER LACE.

DIMOFF, Gloria T., 4415 W. Andover St., Seattle 6, Wash.
EBONY ROSE.

DORMON, Caroline (Miss), Saline, La.
FORMOSA, TANGO PINK, DAINTY LASS, VIRGINIA, GOLDEN SHEAVES,
HONEY SWEET, FOXGLOVE BELLS.

DOUGLAS, Geddes, Brentwood, Tenn.
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1951 DELAYED REGISTRATIONS

AMAZING GRACE. W1. (George N. Rees, Reg. attempted 1951). Tall bearded, 34"; midseason. White self, blue influence. Venus DeMilo x Great Lakes.

BETTE LEE. W1. (Vernon L. Davis, Reg. 1951). *A. hexagona* (La.), 24"; early to late; White self, green signal. Parentage unknown, collected 1946. Registration completed, but never appeared in 1951 records.

POLKA DOT. W3. (Gorton, Mrs. J. M. (Clare R., Reg. 1951). *A. hexagona* (La.), 30"; midseason. White, dotted with blue. Unknown parentage, collected. Registration completed, but never appeared in 1951 records.

SONATA IN GOLD. Y1. (Clevenger, Dr. Lewis, 1951). Tall bearded, 36"; midseason. Yellow-cream Self with green shadows. Howdy x Clevenger yellow seedling. Registration accepted and believed to be complete, but never appeared in 1951 records.

1953 REGISTRATIONS

AAHME. RV1P. (Craig, Tom, Reg. 1953). Tall bearded, 36"; reblooming. Pale orchid self (light red-violet, or Orchadee), beard coral blush. Hall 44-50: (sister to Cherie) x (Peach Parfait sister x Fantasy).

ACACIA MEADOW. Y1L. Sdlg. #D629-51-10. (Lyon, David Wm. Reg. 1953). Tall bearded 44"; midseason. Light creamy yellow self. White Ruffles x Char-Maize.

Reg. 1953). Tall bearded 36"; early midseason. Flamingo pink self, no markings. Tally Ho x Courtier.

- ALABAMA GLORY. OR1. Sdlg. #52-04. (Cooper, Miss Annie A., ALBA ROYALE. W1. (Fielding Roy W., Reg. 1953). Tall bearded 42"; midseason. White self, beard faintly yellow. Snow Flurry x Azure Skies.
- ALICE HINKLEY. OR1. (Aylett, K. E., Reg. 1953). Tall bearded, av. 36"; midseason. Flesh pink self overlaid old gold. Beard bright orange. Golden Eagle x Pink Cameo.
- ALL HONEY. Y1. (DeForest, Fred, Reg. 1953). Tall bearded, av. 36"; midseason. Golden tan self. Two seedlings.
- ALMOND BLOSSOM. Y01. (Craig, Tom, Reg. 1953). Tall bearded, av. 40"; midseason. Clear peachblossom pink Self, baby pink at haft, ibis pink beard. Hall 42-07 x Peach Parfait sib.
- ALTAR LIGHT. Y3 .(Brown, Opal L., Reg. 1953). Tall bearded, av. 42"; midseason. Reverse Yellow bitone: Stds. light yellow, Falls cream with amber overlay at outer haft. Gold Ruffles x Alpine Glow.
- ALZADA. R1. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded, av. 38"; midseason. Red self. Solid Mahogany x The Red Douglas.
- AMELITA. B4. (Albright, Margaret Y., Reg. 1953). Tall bearded, av. 36"; midseason to late. Blue bicolor, Stds. pale blue, Falls red-purple with velvety lighter band. No haft markings. Amigo x Melitza.
- AMIDA. R1L. Sdlg. #51-36. (Barker, M. J., Reg. 1953). Tall bearded, av. 37"; early to midseason. Soft pink self, pink beard. (#48-05: Remembrance x Overture) x (#48-33: Melitza x Overture).
- AMULETTE. Y5. Sdlg. #48-477. (Sass, Henry E., Reg. 1953). Tall bearded, av. 38"; early midseason. Blend, Orange Buff (507 Wilson) Stds.; Falls same flushed violet forming blue blaze at end of dark yellow beard. Haft dark yellow, giving bright glow through center of flower. (Red Blend Sdlg. 40-316: Matula x Prairie Sunset) x Rainbow Room.
- ANALA. O1D. Sdlg. #52-27. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. 34"; midseason. Light-toned russet brown self, gold influence at throat. Melody Lane x Matula.
- ANGEL FACE. W2. (Tompkins, C. W., Reg. 1953). Tall bearded, av. 36"; midseason. Whiteground plicata, rose edging. (Rare Marble x Firecracker) x Captivation.
- ANGELINE. W1. Sdlg. #48-4A1. (Solomon, Raymond C.; Reg. 1953). Tall bearded, av. 38"; early midseason. White self; beard white to light yellow deep in throat. Snow Flurry x Azure Skies.
- ANTIQUE. Y5. (Carpenter, Carl, Reg. 1953). Tall bearded, av. 34"; midseason. Blend; Pinkish tan with blue suffusion. Glen Ellen x Angelus.
- ANTIQUE RUBY. R1. (Barton, Mrs. Thelma G., Reg. 1953). Sdlg.

- #B5207. Tall bearded, av. 36"; midseason. Oxblood red self, velvety falls; beard dark yellow. Ernell x Color Sergeant.
- ANY TIME. W1. (Cavagnar, Mrs. Emanuel, Reg. 1953). Eupogoclycus hybrid, av. 42-50"; extra early. White self, touch of pale chartreuse at haft. Alba Superba x Lady Mohr.
- APOLLONIC. Y1. (Long, B. R., Reg. 1953). Tall bearded, av. 36"; midseason. Sulphur lemon yellow self. Serin x Treasure Ship.
- APRICOT DELIGHT. YO1. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded, av. 36"; midseason. Apricot self. (Far West x Midwest Gem) x Pink Tower.
- ARMIDA. R1. (Fothergill, H. Senior, Reg. 1953). Apogon California, av. 9"; early. Cardinal red self. I. *innominata* x I. *douglasiana*.
- AUTUMN TRAIL. OR3. Sdlg. #52-40. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. 36"; midseason. Red-toned bitone: Stds. light russet, Falls coppery chestnut brown. Ola Kala x Spun Gold.
- BALDY. VR5. (Craig, Tom, Reg. 1953). Tall bearded, av. 44"; midseason to late. Violet-redtoned blend: Stds. Opal Gray (M&P) fading to Gull Gray (M&P); Falls dark lively purple. Beard deep chrome. ((Acropolis x Destiny) x Wabash) x (Regal Robe x Wabash).
- BAMBOO. O4. (Craig, Tom, Reg. 1953). Eupogoclycus hybrid, av. 30"; early midseason. Bicolor: Stds. golden-buff (Maplewood, M&P); Falls same with allover pattern of heavy lines of burgundy; beard bison brown. Very full, Mohr-type flower, round form. Gay Senorita x Capitola.
- BANDAR PASHA. V5. Sdlg. #11-B5. (White, Clarence G., Reg. 1953). Eupogoclycus hybrid, av. 28"; midseason. Violet-toned blend: Stds. pallid violet penciled raisin purple; Falls lilac gray faintly penciled raisin purple and pronounced blackish purple. Velvet blackish purple signal patch, similarly stippled. Parents unknown.
- BEATEN GOLD. Y5. (Randall, Harry J.; Reg. 1953). Tall bearded; average height 36"; midseason. Blend of Old Gold and copper. Chamois x Melodist. Wisley Trials 1953.
- BEISAN AGA. RV5. (White, Clarence G., Reg. 1953). Eupogoclycus hybrid, av. 28"; midseason. Red-violet toned Blend: Stds. port wine penciled darker; Falls buff heavily penciled darkest hot purple black, warm Black signal. Parents unknown.
- BENTON CORDELIA. RV1P. (Morris, C. L., Reg. 1953). Tall bearded, av. 36"; midseason. Pale mauve self, tangerine beard. Benton Petunia x Radiation.
- BERMUDA BLUE. V3. (Eckels, Richard P., for originator Mrs. Lena Lothrop; Reg. 1953). Tall bearded, av. 40"; midseason to late. Violet bitone: Stds. soft Bluish Violet (Ridg.); Falls Dauphin's Violet, beard light violet. Parents unknown, but evidently related to ESQUIRE.

- BETH COREY. B1ML. Sdlg. #47-10B. (Watkins, Edw., Reg. 1953). Tall bearded, av. 38"; midseason. Blue self, medium light. ((Shining Waters x Gloriole) x Great Lakes) x Chivalry.
- BETHEL. Y1. Sdlg. #LM-2. (Linse, Jack G., Reg. 1953). Eupogocyclus hybrid, av. 38"; midseason. Golden rosy-tan self, lighter gold at haft, beard orange, no striations; rosy tan buds. Tall bearded form bloom. Lady Mohr x Tan Sdlg. #49-1: Ormohr x Matterhorn.
- BETROTHAL. Y1. (Eckels, Richard P., selector for originator Mrs. Lena Lothrop; Reg. 1953). Tall bearded, av. 36"; midseason. Empire yellow (Ridg.) Self. Beard wax yellow. Esquire x Fort Knox.
- BETTY DRAKE. Y2. (Fothergill, H. Senior, Reg. 1953). Tall bearded, av. 40"; midseason. Yellow-ground plicata, markings white and maroon. Benton Daphne x Rare Marble. Bronze Medal BIS 1953; Wisley Trials 1953.
- BICKEL BLUE. B1P. (Stoll, Mrs. Wm. A., Reg. 1953). Apogon *Siberica*, av. 25"; early. Blue self, pale (M&P 41-A-6). Gatineau x Snowy Egret.
- BIG GAME. V1D. Sdlg. #50-06. (Fay, Orville W., Reg. 1953). Tall bearded, av. 38"; early through midseason to late. Deep violet self (Wilson 36). Fay #48-61: (Snow Flurry x Chivalry) x Fay #48-43: (#44-44 blue x Chivalry).
- BIG NEWS. R3. (Gorton, Mrs. J. M., Reg. 1953). Apogon *hexagona* (La.); av. 36"; midseason. Rose bitone: Stds. light rose pink, gold crest half way down. Falls deeper shade same hue. *giganticaerulea* form. Ida Stone x Unknown.
- BIG SPRING. V5. (Rees, George N., Reg. 1953). Tall bearded, av. 38"; midseason. Violet-toned blend: Grayed-violet background, close purple veins in Stds.; Falls Indian purple, haft marked like veining of Stds. Nixianna x Nene.
- BIG WOODS PURPLE. RV1. (Davis, Claude W., Reg. 1953). Apogon *hexagona* (La.), 36-48"; early. Purple Self (M&P 42-L-11); radiant chartreuse crest. Collected; unknown.
- BLACK CASTLE. V1D. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. 32"; midseason. Self, deep violet, near black. Sister of Black Forest x Down East.
- BLACK CHILD. V3. (Bailey, Arthur, Reg. 1953). Tall bearded, av. 30"; late. Violet bitone: Stds. dark violet, Falls very dark purple. (Sdlg. S-7/45: The Red Douglas x C. H. Jenks) x C. H. Jenks.
- BLACKJACK. BV1D. (Streibich, Mrs. Chas., (Belden) Reg. 1953). Tall bearded, av. 36"; early to midseason. Blue-purple self, dark, few haft markings. Sable x Unknown.
- BLACK JOPPA. V5. (White, Clarence G., Reg. 1953). Eupogocyclus hybrid, av. 32"; midseason. Violet blend: Stds. aster, heavily veined

prune purple; Falls near Italian straw, penciled a little darker than Spanish Raisin. Parentage unknown.

BLACK MIDNIGHT. RV1D. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. 36"; early midseason. Deep red-violet self, "Claret Black". Velvet Dusk x Black Valor. Name transferred from 1950 registration, never introduced.

BLACK TAFFETA. V1D. (Songer, Miss Gertrude, Reg. 1953). Tall bearded, av. 28-30"; midseason. Deep violet self (black purple); beard and haft same. Black Forest x Muhlestein #47-33: (Storm King x Sable).

BLACK WIDOW. V1D. (MacMillan, W. B., Reg. 1953). Apogon *hexagona* (La.), av. 50"; late. Deepest violet self (blackest purple, darker than any Maerz & Paul plate). No signal patch. From two chance sdlgs.

BLONDE DANCER. YO1. Sdlg. #VBC4816. (Voris, Chas. Wm., Reg. 1953). Tall bearded, av. 41"; midseason. Gilded buff self, deeper tan at haft with light blaze. Golden Russet x (Bryce Canyon x Veishea).

BLUE CHALLENGE. B3L. (Dubes, Geo. W., Reg. 1953). Tall bearded, av. 36-38"; midseason. Blue bitone, light: Stds. light blue, Falls slightly darker. Gudrun x Great Lakes.

BLUE FAIRY. B1M. (Muhlestein, Tell, Reg. 1953). Eupogoregelia hybrid, av. 38"; early midseason. Blue self, medium. Cool Lemonade x Hoogie Boy.

BLUE HAWAII. VB1. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. 42"; midseason. Lavender blue self. Snow Flurry x Sylvia Murray.

BLUE MARVEL. B1M. (Dubes, Geo. W., Reg. 1953). Tall bearded, av. 36"; midseason. Blue self, medium; Stds. have silvery edging. Slightly lighter area at haft of falls. (Seedling: Missouri x Great Lakes) x Gloriole.

BLUE ORCHID. RV1D. (Marx, Walter, Reg. 1953). Apogon Japanese, av. 36"; early to midseason. Orchid self, deep tone, double. Shin Ran x Unknown.

BLUE PRINT. B1M. Sdlg. #52-50. (Ellyson, Craig D., Reg. 1953). Tall bearded, av. 40"; midseason. Blue self, medium. White beard and haft. Miles Sdlg. #2 x Sdlg. #48-05: (Elsa Sass x (#45-13: Elsa Sass x The Sentinel)).

BLUE RUFFLES. RV1. (Maxwell, Alexander, introducer, for originator Dr. A. J. Barten; Reg. 1953). Tall bearded, av. 38"; midseason. Red-violet self: Roman Purple to Grape Juice (M&P). White at haft, beard tipped white, shading to deep yellow. Two seedlings, both pedigrees lost.

- BLUE SAPPHIRE.** B1L. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. 40"; early. Blue self, light, silvery. Snow Flurry x Chivalry.
- BLUE SNOWFLAKE.** W4. (DeForest, Fred, Reg. 1953). Tall bearded, av. 40"; midseason. White-ground Bicolor: Stds. white, lined blue violet; Falls dark blue violet. Extravaganza x Three Sisters.
- BLUE SPOT.** B4. Sdlg. #J-522. (Welch, Walter, Reg. 1953). Dwarf bearded, 4"; extra early. Blue Bicolor: Stds. light blue, Falls darker, blue-violet, light blue border. Beard bluish-white. Sulina x Nana.
- BOLD CONTRAST.** O4. Sdlg. #Raj-3. (Linse, Jack G., Reg. 1953). Tall bearded, av. 38"; midseason to late. Blended bicolor: Stds. Inca Gold flushed rosy; Falls between Raspberry and Mauverose (M&P), narrow yellow border. Orange beard. Extravaganza x Rajah Brooke.
- BONNIE DUNDEE.** BV1L. (Maxwell, Alexander, introducer, Reg. 1953). Tall bearded, av. 38"; midseason to late. Lavender-orchid self, light yellow beard and at haft. Cliffdell x Alexia seedling.
- BONNY BAIRN.** OR1. Sdlg. #51-61. (Barker, M. J., Reg. 1953). Tall bearded, av. 36"; midseason. Medium pink self, red beard. Bonny x #4804 (Reveille x Overture).
- BORDER BLUE.** B1. Sdlg. #8/X482. (Stevens, Mrs. Jean, Reg. 1953). Tall bearded, av. 28"; early midseason. Medium light blue self. (Magnolia x (Lagos x (Gudrun x Lady Morvyth x Rangatira))) x Great Lakes.
- BOWL OF HEAVEN.** B1. (Savage, Mrs. V. (Rosyl), Reg. 1953). Tall bearded, av. 44"; midseason. Medium blue self, lighter patch around lemon beard. Snow Flurry x Great Lakes.
- BOY BLUE.** RV1. (Davis, Claude W., Reg. 1953). A. hexagona (La.), av. 24"; midseason. Self of Vatican Purple (M&P 45-L-12), faint yellow midstripe. (Collected Foliosa x fulva hybrid) x Starry Night.
- BOY IN BLUE.** Y4. (Drewett, Anthony W., Reg. 1953). Tall bearded, av. 40"; midseason. Yellow bicolor: Stds. creamy yellow, Falls flax blue. (((Wabash x China Maid) x (Purissima x Cantabile) x (Goldflake x Yellow Plicata))).
- BREAK OF DAWN.** 01P. Sdlg. #49-137. (Sass, Henry E., Transfer Reg. 1953). Tall bearded, av. 38"; midseason. Self, pale tint of Orient Pink (Wilson 416/3). (Pink Sdlg. 47-50: (Melitza x 44-25, pink) x (Flora Zenor x Loomis Sea Shell)) x (Pink Sdlg. 47-57: (Pink 43-16 x 44-25)). 1946 registration never introduced; obsolete.
- BRIGHT CONTRAST.** W2. (Schreiner, Robt., Reg. 1953). Tall bearded, av. 36"; early. Plicata, white banded red-violet. ((Beau Ideal x Wasatch) x unknown) x Minnie Colquitt.
- BRIGHT DREAMS.** Y3. (Schuman, Mrs. A. H. (Diana); Reg. 1953).

- Tall bearded, av. 36"; midseason to late. Yellow-toned bitone: Stds. and Falls cream, slightly darker edging. Waxy White x Pink Formal.
- BRILLIANT ROSE.** R1. (Austin, Lloyd, Reg. 1953). Tall bearded, av. 40"; early midseason. Very deep pink self, between Inspiration and Mulberry Rose. Snow Flurry x Inspiration.
- BRONZE BELL.** OY3. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. 36"; early. Orange-yellow toned Bitone: Stds. orangy tan, Falls darker orangy tan, Berkeley Gold x Rocket.
- BRONZE PILLAR.** O1. (Keith, A. D., Reg. 1953). Tall bearded, av. 36"; midseason. Self, color of bronze plate not polished for a week or so (M&P 12-G-8). Aztec. Copper x Tobacco Road.
- BROWN SHEEN.** R3. Sdlg. #52-28. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. 34"; midseason. Red-toned bitone: Stds. russet, Falls rosy chestnut brown, small edging, and streak down center the color of Stds. Yellow beard. Melody Lane x Matula.
- BUDDING PILOT.** V1L. (Rundlett, Edwin, Reg. 1953). Tall bearded, av. 32"; midseason. Light bluish violet self (Ridg.); gold beard. Lake George x Brownell Sdlg. #16-48: (Missouri x Great Lakes).
- BUFF BANNERS.** Y4. (Fielding, Roy W., Reg. 1953). Tall bearded, av. 36"; midseason. Yellow Bicolor: Stds. dull yellow, Falls clear white with 1/4" band of buff on edge and feathering at haft. Beard deep yellow. Coritica x Sdlg. part Onco.
- BURNISHED BLACK.** V1. Sdlg. #48-44A. (Nesmith, Mrs. Thos. (Elizabeth), Reg. 1953). Tall bearded, av. 39"; midseason to late. Aconite Violet self (Wilson 937/1), no haft markings, slightly deeper flush. Beard Aconite Violet, tipped lighter. (Barbara Adams x Gulf Stream) x Black Satin.
- BUSTER BROWN.** Y4. (Zickler, Edward A., Reg. 1953). Dwarf bearded, av. 8"; early. Bicolor: Stds. maple sugar brown, Falls dark reddish brown. Tony x arenaria.
- BUTCH.** RV1D. Sdlg. #J-523. (Welch, Walter, Reg. 1953). Dwarf bearded, av. 6"; early. Self, dark red-violet. ((F-511:Sass Dk. Ruby x Purple Beauty) x Burchfield)) x Biflora)) x Nana. Name transferred from unintroduced Sdlg.
- CALDRON.** R3. (Schreiner, Robt., Reg. 1953). Tall bearded, av. 36"; late. Red-toned Bitone: Stds. light red brown, Falls darker red brown. Garden Glory x Cordovan.
- CANDELABRA.** Y1. (Rundlett, Edwin, Reg. 1953). Tall bearded, av. 48"; midseason. Barium yellow Self (Ridg.), with glistening overlay of citron yellow, bright yellow beard. (#5102:Sally Ann x Brownell's 4-44, which is Missouri x Gr. Lakes) x (#5103, which is reverse cross, or 4-44 x Sally Ann).
- CANDY KID.** V5. (Maxwell, Alexander, selector, Reg. 1953). Tall

- bearded, av. 34"; midseason. Blend: Stds. rosy lavender, Falls darker rosy lavender with marbled effect, rose and lavender; dark yellow beard. Cliffdell x Alexia Sdlg.
- CANDY KISSES. RV5. (Burns, Mrs. Edythe, Reg. 1953). Tall bearded, av. 38"; midseason to late. Rose mauve blend of pink, gold and blue; yellow haft and beard. Cascade Splendor x Mellowglow.
- CANDY STRIPE. W2. (Marx, Walter, Reg. 1953). Tall bearded, av. 42"; midseason to late. White-ground plicata, purple edge. Blue Shimmer x Schreiner plicata.
- CANYON SUNSET. R5. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded, av. 38"; midseason. Red-toned blend, flushed blue in falls. (Grand Canyon x Midwest Gem) x Prairie Sunset.
- CAPPIE LOU. R1. (Murdock, Eleanor L., Reg. 1953). Tall bearded, av. 34"; midseason. Medium red Self. Ernell x Redyen.
- CAPTAIN SHREVE. R1D. (Gorton, Mrs. J. M. (Clare); Reg. 1953). *A. hexagona* (La.), av. 36"; midseason. Rich dark red self, stippled golden crest. Peggy Mac x Cherry Bounce.
- CAPTAIN'S LADY. W2. (Brown, Opal L., Reg. 1953). Tall bearded, av. 36"; midseason late. White-ground plicata stippled lavender. Tangerine beard. F2 sdlg. of Hit Parade x Pink Formal.
- CARBON COPY. R3. (Aylett, K. E., for W. P. Aylett, Reg. 1953). Tall bearded, av. 36"; midseason. Red-brown bitone: Stds. light reddish brown, Falls darker, lightening to orange cream at base of throat. Orange beard. Red Letter Day x Solid Mahogany.
- CARIBBEAN SKY. B1M. (Tompkins, C. W., Reg. 1953). Eupogocyclus hybrid, av. 36"; midseason. Medium blue self, blue beard. Congres x (Annabel x Narain).
- CARIBOO. VB3. Sdlg. #53-14A. (Saunders, David V., Reg. 1953). Eupogocyclus hybrid, av. 32"; midseason. Bitone, two shades of blue violet (BV6 and BV3, Fisher). Berkeley Blue x Onco Sdlg.
- CARNIVAL LIGHTS. Y5. (Sass, Henry E., Reg. 1953). Sdlg. #50-155. Tall bearded, av. 36"; midseason. Yellow ground, heavily flushed brown; unmarked yellow haft gives yellow glow thro center. Sdlg. (#48-73, red plicata, is #44-44 from Aleppo Plain x #45-23, red from City of Lincoln) x (Sdlg. #48-28, which is #46-85, red and yellow plicata from City of Lincoln x Pretty Pansy).
- CARO-SHELL. OR1. (Majewski, Frank A., Reg. 1953). Tall bearded, av. 34"; early. Pink Self. Sprindrift x Hit Parade.
- CASCADE ROSE. R3. (Kleinsorge, R. F., Reg. 1953). Tall bearded, av. 40"; midseason. Rose bitone: Stds. Rose, Falls deep rose; gold beard and haft. Rose Splendor x Rose Sdlg. #354B.
- CASINO. RV1. Sdlg. #48-3. (Plough, Gordon W., Reg. 1953). Eupo-

gocyclus hybrid, av. 40"; early to late. Self, rosy mulberry with Mohr veinings. William Mohr x Firecracker.

CELEBRITY. W1. (Carney, Robert S., Reg. 1953). Tall bearded, av. 36"; midseason to late. White self, beard yellow to white at tip; no haft markings. Tranquility x Spanish Peaks.

CENTENNIAL PEACH. OY5. (Shinkle, Mrs. Herbert (Berniece), Reg. 1953). Tall bearded, av. 40"; midseason. Peach blend: Stds. deep peach blend, Falls same edged cream-peach. Deep tangerine beard. Paul Cook's P-444 Sdlg. x Hit Parade.

CHAMPION. Y1. Sdlg. #53-7. (Smith, Kenneth D., Reg. 1953). Tall bearded, av. 36"; midseason. Self, of butter yellow. (Sdlg. #50-32: Spanish Peaks x Golden Hawk) x Golden Hawk. #50-32 is sister sdlg. to Silver Hawk.

CHANCELLOT. Y4. (Darby, G. W., Reg. 1953). Intermediate bearded, av. 18"; early. Yellow Bicolor: Stds. clear yellow, Falls striated greenish brown on yellow Attica x Golden Hind. Wisley Trial 1952.

CHANTGLOW. R1L. (Van Slyke, Margaret E. Reg. 1953). Tall bearded, av. 40"; midseason to late midseason. Pink self, white throat, beard yellow tipped white. Dreamcastle x pink sdlg.

CHERI LOUISE. B1M. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded, av. 38"; midseason. Medium blue self. Great Lakes x Sierra Blue.

CHERITO. Y1L. Sdlg. #9 N-1. (Corey, Mrs. Preston E. (Miriam E.), Reg. 1953). Tall bearded, av. 34"; late. Light lemon yellow self, beard same. Evening Star x Sugar Plum.

CHICKASAW. Y4. (Ketcham, Mrs. Morgan (Marion), Reg. 1953). Tall bearded, av. 38"; midseason. Bicolor: Stds. yellow, Falls red-brown. Mexico x Gypsy. Name released by Mrs. Thos. Nesmith, because original registration was lost and name is obsolete.

CHIEF GOODMAN. R1M. (Briggs, John L., Reg. 1953). Tall bearded, av. height 36"; early. Medium dark red self, yellow beard. San Francisco x uncertain, probably Indian Chief.

CHINA DOLL. Y1L. (Rogers, Glenn, Reg. 1953). Tall bearded, av. height 40"; midseason. Pale ivory self, beard ivory with pale yellow cast. Spanish Peaks x Harriet Thoreau.

CINDERELLA'S SLIPPER. O1. Sdlg. #L51-10. (Lyon, David Wm., introducer, Reg. 1953). A. California, *douglasiana* hybrid; av. height 12"; April-May. Soft buff self. Unknown.

CLOVELLY ORCHID. RV1L. (Stoll, Mrs. Wm. A. (Dorothy), Reg. 1953). Tall bearded, av. height 36"; late. Light orchid pink self (M&P 41-E-4). (Serenade x Dogrose) x Manyusya.

COLOR FESTIVAL. OR4. (Perkins, Mrs. K. A., (Irene), Reg. 1953). Tall bearded, av. height 36"; midseason. Bicolor: Stds. seashell pink,

- Falls same heavily striated purple, paling to pink border; tangerine beard. Golden Eagle x Color Carnival.
- COLOR GLO. OY5. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. height 40"; midseason. Blend: Stds. buff beige, Falls blended fawn, heliotrope with blue blaze. Idanha x Rainbow Room.
- COLOR HARMONY. O5. Sdlg. #6-156-1. (Lafrenc, Ernest, Reg. "Mitchell-Lafrenz" 1953). Tall bearded, av. height 40"; early to midseason. Blended Bicolor: Stds. golden buff flushed bluish violet, Falls same edged bolden buff. Sultan's Robe x Mitchell Sdlg.
- CONCORDIA. RV1. Sdlg. #4911. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Tall bearded, av. height 44"; late. Deep red-violet self, yellow beard, haft markings. Nightfall x Mexican Magic.
- CONGO. R1D. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. 40"; midseason. Dark red self, velvety flush on falls. Ethiop Queen x Velvet Dusk. Name released by former registrant, John Dee Wareham.
- CONTACT. R1D. (Wall, Hugo, Reg. 1953). Tall bearded, av. height 36-38"; early to midseason. Dark red self. Casa Morena x Solid Mahogany.
- CONTRABAND GIRL. RV1L. (Duplechain, Mrs. W. E., Reg. 1953). A. *hexagona* (La.), av. height 36"; midseason. Lavender pink self (Fischer RV5), orange-yellow signal. Collected.
- CONVENTION QUEEN. YO1. (Muhlestein, Tell, Reg. 1953). Sdlg. #51-51D. Tall bearded, av. height 40"; midseason to late. Peach pink self. Salmon Shell x Pink Fulfillment.
- COPPERHEAD. O1. (Reinhardt, Mrs. Robt. M., Reg. 1953). Tall bearded, av. 34"; midseason. Copper-brown self, yellow flush in center of falls. Mexican Magic x Susitna Sunset.
- CORA M. GORMAN. W1. Sdlg. #I(GESB481xGE). (Voris, Chas. Wm., Reg. 1953). Tall bearded, av. 34-36"; early. White self, pale lemon haft. (Blue Sdlg. from Santa Barbara x Gilt Edge) x Gilt Edge.
- CORDOLON. R5. (Schreiner, Robt., Reg. 1953). Tall bearded, av. height 42", late. Blend, old rose with tan underlay. Gypsy Rose x Alpine Glow.
- CORONATION FINERY. OR1. Sdlg. #7-47-3. (Lafrenz, Ernest, Reg. "Mitchell-Lafrenz" 1953). Tall bearded, av. 40"; midseason. Orange-red self (Madder red M&P). Mitchell Sdlg. x Brilliant Amber.
- CORONATION RED. (Reg. 1952, Mrs. Thos Nesmith for H. F. Hall). Parentage, Color Sergeant x Garden Glory. (Information unobtainable earlier because of illness).
- CORONATION TAPESTRY. RV5. (Craig, Tom. Reg. 1953). Eupogon-cyclus hybrid, av. 38"; early midseason. Blend: Stds. Rosedust blend-

ed thro Marion to old gold at midrib, lilac iridescence on inner midrib; Falls Travertine washed and veined Coronation Purple (M&P). Gay Senorita x Joppa Parrot.

CORONATION WHITE. W1. (Ketchum, Mrs. Morgan (Marion), Reg. 1953). Tall bearded, av. 38"; midseason. White self, geranium red beard. Hall pink Sdlg. x Heather Rose.

COTTON CANDY. OR1. (Tompkins, C. W., Reg. 1953). Tall bearded, av. 36"; midseason. Flamingo pink self, pink beard. ((The Red Douglas x Prairie Sunset) x (Amenti x ?) x Prairie Sunset)) x (Flora Zenor x Hall Pink). Originator, Henry E. Sass; Tompkins selector and introducer.

COULEE. Y1. (Gorton, Mrs. J. M. (Clare), Reg. 1953). A. *hexagona* (La.), av. 20"; midseason. Canary yellow self, *giganticaerulea* form, apple green style arms. Chance seedling.

CRADLE SONG. B1P. Sdlg. #53-7. (Robinson, Mrs. Geo. D. (Fern), Reg. 1953). Tall bearded, av. 36"; midseason. Pale blue self, near-white beard. Helen McGregor x Sdlg. B-1: (Shining Waters x Great Lakes).

CREOLE COTILLION. O1P. (Chowning, Frank E., Reg. 1953). A. *hexagona* (La.), av. 30"; midseason. Pale buff self, to tan at center of falls; *foliosa* form. Louise Austin x Abbeville Red.

CREAM CHIFFON. Y4. (Maxwell, Alexander, for originator, Reg. 1953). Tall bearded, av. 38"; midseason. Reverse bicolor: Stds. light canary yellow, Falls white. Haft light yellow, beard canary yellow. Ruth x Blue Rhythm.

CREPE SUZETTE. YO1. Sdlg. #499. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Tall bearded, av. 36"; midseason to late. Light peach pink self, tangerine beard. Tea Rose x Hall #42-05.

CRIMSON BEAUTY. Y4. (Austin, Lloyd, Reg. 1953). Tall bearded, av. 40"; midseason. Blended bicolor: Stds., light bronzy gold with infusion of crimson; Falls rich dark crimson, edged to match Stds. Heavy white veining from beard into falls. Siegfried selfed.

CRYSTAL. W1. Sdlg. #48-119A. (Knowlton, Harold, Reg. 1953). Tall bearded, av. 36"; midseason. White self, flushed pale lavender-blue. Snow Flurry x Chivalry.

CUPID'S DART. YO1. (Craig, Tom, Reg. 1953). Tall bearded, av. 45"; midseason and fall. Opera pink self, ibis pink at haft cheeks; bittersweet beard. (Mount Washington x Flora Zenor) x (Mount Washington x Flora Zenor).

CURL'D CLOUD. W1. (Hinkle, Mrs. W. J. (Georgia M.), Reg. 1953). Tall bearded, av. 38"; midseason. White self, beard cream to yellow. Hinkle Sdlg. C-24-1 x New Snow.

CURLY-LOCKS. Y1. Sdlg. #10. (Lyon, David Wm., for originators,

- Reg. 1953). A. California (*innominata* hybrid), av. 10"; April-June. Deep yellow self. Parentage unknown.
- CURTIS A. OR1. (VanSlyke, Margaret E., Reg. 1953). Tall bearded, av. 38"; midseason to late. Light pink self, tangerine beard. Hall's 44-09 x Pink Formal.
- DAINTY LASS. RV1. (Dormon, Miss Caroline, Reg. 1953). A. *hexagona* (La.), av. 30"; midseason. Rose self, fuchsia toned. Mary Debaillon x Saucy Minx.
- DAME FASHION. R1L. (Marx, Walter, Reg. 1953). Tall bearded, av. 48"; midseason. Baby pink self (M&P). Cherie x Pink Formal.
- DANCING TIGER. Y2. (Schreiner, Robert, Reg. 1953). Tall bearded, av. 38"; midseason. Yellow plicata, reddish markings. Two unnamed plicata seedlings.
- DANTE'S CANDLE. RV1D. (MacMillan, W. B., Reg. 1952). A. *hexagona* (La.), av. 50", midseason to late. Dark red-violet self (M&P 55-12-A). Narrow yellow line crest. Two chance sdlgs.
- DARK BOATMAN. V3. Sdlg. #3850. (Cook, Paul H., Reg. 1953). Tall bearded, av. 34"; midseason. Violet bitone: Stds. Anthracene Violet, Falls velvety black, tinged Dark Anthracene Violet; beard dark bluish violet (Ridgway). Black Forest x Sdlg. #12047: ((Modoc x black Wings) x Sable) x (Sable x (Modoc x Black Wings)).
- DARK MAGIC. O1. Sdlg. #7-45-3. (Lafrenz, Ernest, "Mitchell-Lafrenz" Reg. 1953). Tall bearded, av. 35"; midseason to late. Brown self, dull gold at haft. Mitchell Seedling x Tobacco Road.
- DARK MOON. OY1. Sdlg. #B4966. (Barton, Mrs. Thelma G., Reg. 1953). Tall bearded, av. 36"; midseason. Orange-yellow self (Fischer #3). Ola Kala x Orange Gem.
- DAWN LUSTRE. YO1. (Stoll, Mrs. Wm. A. (Dorothy), Reg. 1953). Tall bearded, av. 40"; midseason to late. Fawn Pink self (M&P 4-C-9). Eros x Copper Lustre.
- DAWN PATROL. Y4. (Paquet, Mrs. Philip (Nannie), Reg. 1953). Tall bearded, av. 36"; midseason to late. Yellow bicolor, reverse. Stds. cream, Falls white; gold at haft. Ming Yellow x Great Lakes.
- DAWN SPRITE. O5. Sdlg. #53-2. (Flory, Wilmer, Reg. 1953). Tall bearded, av. 32"; midseason to late midseason. Blend: Stds. pinkish buff; Falls have broad violet flush in center, edged mauve gray, golden-tan infusion near haft. Parentage record lost.
- DEBBY. YO1. Sdlg. #52-03. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. 32"; early midseason. Deep apricot-pink self, geranium red beard. Tally Ho x Melody Lane.
- DECOR. RV1L. Sdlg. #52-19. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. 30"; midseason. Orchid pink self, golden yellow beard. Tall Ho x Courtier.

DEEP BLACK. V1D. Sdlg. #9951. (Cook, Paul H., Reg. 1953). Tall bearded, av. 36"; late. Self of "black" violet (Blackish Violet, Ridg.). Beard Roslyn Blue (Ridg.). Black Forest x (Seedling #7847: (Captain Wells x Indiana Night) x ((Modoc x Black Wings) x Indiana Night)).

DEFIANCE. R1. (Tompkins, C. W., Reg. 1953). Tall bearded, av. 36"; midseason to late. Near-Cardinal Red self. Manana x Technicolor.

DERWENTWATER. B1P. (Randall, H. J. Reg. 1953). Tall bearded, av. 34"; midseason. Pale blue self. Helen McGregor x Cahokia. Bronze Medal BIS. Wisley Trial 1953.

DIXIE DAWN. Y5. (Rees, George N., Reg. 1953). Tall bearded, av. 36"; midseason. Blend; Stds. blend of amber glow and sherry brown; Falls blend of sherry brown and argus brown, gold infusion around tip of beard (Maerz & Paul). Ola Kala x Ming Yellow.

DONALEE. B1P. (Howe, O. R., Jr., Reg. 1953). Tall bearded, av. 42"; midseason. Pale blue self (M&P 34-C-1); blue-white beard. Snow Flurry x (White Goddess x Matterhorn).

DORCAS ANNE. RV3. (Bailey, Arthur, Reg. 1953). Tall bearded, av. 28-30"; late. Red-violet bitone: Stds. dark wine, Falls dark wine purple. Beard smoky yellow. (S-8/45: The Red Douglas x C. H. Jenks) x S. U. I.

DREAM DANCE. Y1. Sdlg. #10-B-48. (Larsen, Carl A., Reg. 1953). Tall bearded, av. 38"; early midseason to late. Golden tan self, mother-of-pearl area in center of falls, and narrow, lighter border. ((Red Sdlg. x Happy Days) x (Moonlight x Candlelight) x (Mrs. Valerie West x Aurifero) x (El Capitan x Grace Sturtevant) x Los Angeles)) x Bryce Canyon.

DUST STORM. OY1. (Kidd, Mrs. Tommie Lee, Reg. 1953). Eupogon-regelia hybrid, av. 30"; midseason. Dust brown self. (Jean Cayeux x Summer Tan) x stolonifera.

EASTER SURPRISE. RV3. (Arceneaux, Mrs. E. P., Reg. 1953), A. *hexagona* (La.) *giganticaerulea*, av. 35"; midseason. Bitone: Stds. light orchid (M&P 41-F-5); Falls slightly darker (M&P 41-F-6). Unknown.

EAST INDIES. Y5. Sdlg. #9-87. (Smith, Kenneth D., Reg. 1953). Tall bearded, av. 41"; midseason. Blend: Cafe au lait with iridescent overlay of violet or lavender. Yellow beard. Golden Days x Cascade Splendor.

EBONY ROSE. R3D. (Dimoff, Mrs. Gloria T., Reg. 1953). Tall bearded, av. 36"; midseason. Red bitone: Stds. oxblood red, Falls "black" oxblood red (Wilson 00823). Prince of Orange x Gallant Leader.

ECHO CANYON. W2. (Larsen, Carl A., Reg. 1953). Tall bearded, av. 30"; midseason to late. White ground plicata, cinnamon markings.

- ((Aldura x (Jane Williams x Tuscany Gold) x Peerless x (Grace Sturtevant x Cameliard)) x Balmung))) x (Aldura x Tiffany).
- ED HILL. V3. (Hodges, Mrs. G. L., Reg. 1953). Tall bearded, av. 35"; midseason. Violet bitone: Stds. aconite violet, edged rosemary. Falls Hyacinth violet edged Dahlia. Columbine blue midrib, orange beard. Rose to cream at haft. Remembrance x Howdy.
- EDNA CULBERTSON. W1. (Culbertson, Edna L., Reg. 1953). Tall bearded, av. 40"; midseason. All-white self. Matterhorn x Arctic.
- EL DORADO BEAUTY. Y4. (Austin, Lloyd, Reg. 1953). Tall bearded, av. 34"; midseason. Bicolor: Stds. rich creamy yellow, Falls blue lilac, edged gold. Orange Flame selfed.
- ELIZABETHAN RED. R1. (Brummitt, Leonard W., Reg. 1953). Tall bearded, av. 36"; midseason. Red self. Blood Carnelian x Orange Glow.
- ELIZABETH NOBLE. W3. (Smith, Kenneth S., Reg. 1953). Tall bearded, av. 36"; midseason. Sdlg. #53-20. Bicolor: Stds. open palest lavender soon paling to white; Falls true purple. White beard, violet crests. Helen Collingwood x #9-62: (Extravaganza x Fort Ticonderoga).
- ELLA B. DAVIS. RV3. Sdlg. #49-55-2. (Conger, Sidney L., Reg. 1953). A. hexagona (La.), av. 30"; midseason. Red-violet bitone: Stds. light nectar (M&P 5-E-3) splashed dark (Dahlia Purple M&P 55-H-12); Falls deeper than Stds. and splashed darker (Port, M&P 56-L-5). Roses and Wine x Peggy Mac.
- ELOQUENCE. Y3L. (Howe, O. R. Jr., Reg. 1953). Tall bearded, av. 36"; midseason. Cream bitone: Stds. and Falls cream, Falls bordered deeper; lemon beard (M&P 9-G-2). Sierra Lakes x Sharkskin.
- EMERALD BAY. B1P. (Schortmann, W. B., Reg. 1953). Tall bearded, av. 40"; midseason. Ice blue self, green midrib and veining. Mount Washington x Chivalry.
- ETON. B1D. (Beach, George R., Reg. 1953). Tall bearded, av. 33"; midseason. Dark blue self (40-H-12 M&P). Zantha x Black Forest.
- EVELYN RICHEY. VB1M. (Burch, J. E., Reg. 1953). Tall bearded, av. 34"; midseason. Medium-toned violet-blue self. Blue Shimmer x Ormohr.
- EVENING. VB1. Sdlg. #3252. (Fischer, Hubert A., Reg. 1953). Tall bearded, av. 38"; midseason. Chicory blue self (Ridgway). Blue Triumph x Great Lakes.
- EVENING STORM. V5. Sdlg. #6-156-3. (Lafrenz, Ernest, "Mitchell-Lafrenz", Reg. 1953). Tall bearded, av. 34"; midseason. Violet-toned blend: Stds. pale twilight lavender faintly edged beige; Falls lavender edged beige. Sultan's Robe x Mitchell Seedling.
- EXOTIC. R5. Sdlg. #SR-2. (Linse, Jack G., Reg. 1953). Tall bearded,

av. 48"; midseason. Blend: Stds. Golden Rose, Falls Golden Tan, near Titian, with lilac blaze. Effect is brilliant tan rose self, suffused gold. Seedling. (Painted Desert x Prairie Sunset) x Sultan's Robe.

FAIRY FANCY. W2. Sdlg. #50-209. (Sass, Henry E., Reg. 1953). Tall bearded, av. 36"; midseason. Fancy plicata: Stds. white flushed Violet Purple; Falls white ground heavily flushed Violet Purple (33/2 Wilson). (48-28: red and yellow plicata x Pretty Pansy) x ((48-3: red and yellow plicata x Pretty Pansy) x Pretty Pansy).

FAIRY DAWN. W4. (Scheffy, Mrs. Elizabeth L., Reg. 1953). A. 'siberica'; av. 24"; early. Bicolor: Stds. white, Falls same flushed pinkish. Old white "siberica type" with slight pinkish cast x Unknown.

FAIRY FAY. RV3. (Fothergill, H. Senior, Reg. 1953). A California; av. 9"; early. Bitone, cerise and rose violet. I. *innominata* x *douglasiana*.

FAJRY GOLD. Y1. (Carpenter, Carl, Reg. 1953). Tall bearded, av. 35"; midseason. Self, of creamy lemon yellow; falls have white veins. Rilla Gabbert x Spun Gold.

FAITH. W1. Sdlg. #L50-48. (Lowry, Mrs. F. P. (Edith), Reg. 1953). Tall bearded, av. 40"; midseason. Blue-white self, opens to pure white. Beard tipped yellow. Snow Flurry x (Bay State x Chivalry).

FALL PRIMROSE. Y1L. (Brown, G. Percy, Reg. 1953). Tall bearded, av. 26"; June and October. Primrose yellow self, white spot at end of yellow beard. Few deeper veins on falls. Redwyne x red seedling.

FALL VIOLET. VB3. (Brown, G. Percy, Reg. 1953). Tall bearded, av. 32"; June and October. Violet bitone: Stds. light lavender blue, Falls violet-purple, with lighter center line; yellow beard. Missouri seedling x Autumn Twilight.

FANCYANCY. V3. (Austin, Lloyd, Reg. 1953). Tall bearded, av. 42"; early midseason. Violet bitone: Stds. silvery lilac, Falls Deep Amethyst veined in white over entire surface, delicate brown stippling at haft. Sdlg. M-176B x Sdlg. 638.

FASHION CLASSIC. W4. (Payne, W. A., Reg. 1953). A. Japanese, av. 48"; early midseason; 6 petal. White bicolor: Stds. white, Falls same delicately traced and sanded light violet. (Sdlg. #20: Sdlg. #3 (Ai-fukurin x Kongo-san) x Iso-no-nami) x Swirling Waves.

FELICIFIC. Y5. Long, B. R., Reg. 1953). Tall bearded, av. 40"; late. Blend, light tan tinted salmon. Sister seedling of Armiger x None So Pretty.

FIGURINE. Y5. Sdlg. #B41-6. (Babson, Sanford L., Reg. 1953). Tall bearded, av. 36-38"; mideason. Blend: Stds. buff, tinted lavender;

- Falls same with deeper lavender wash and occasional flecking. Pale lemon beard. Snow Flurry x Unknown.
- FIRST LADY PINK. YO1. (Plumley, H. Ladd, Reg. 1953). Tall bearded, av. 38"; midseason. Self, of peach pink. McKee Sdlg. #4883 x Cherie.
- FIRST MATE. R1. Sdlg. #C-42. (Lapham, E. G., Reg. 1953). Tall bearded, av. 36"; midseason. Bright red self, yellow-toned; light orange beard. Smooth haft. (E-5: Lights On x Flamely) x Pacesetter.
- FLAMINGO BAY. R1. Sdlg. #51-6. (Muhlestein, Tell. Reg. 1953). Tall bearded, av. 38"; early midseason. Deep pink self, deep tangerine beard. Salmon Shell x Pink Formal. This is to correct change of parentage given on p. 52, Bulletin 129.
- FLAT TOP. V3L. (Davis, Claude W., Reg. 1953). *A. hexagona* (La.), av. 24-28"; late. Bicolor: Stds. Wistaria Violet (M&P 41-E-8); Falls heavily veined Columbine Blue (41-G-10 M&P). Parentage not known.
- FLAX AND SAXE. B3. (Drewett, Anthony; Reg. 1953). Tall bearded, av. 40"; midseason. Bitone: Stds. flax blue, Falls Saxe blue. (Purissima x Cantabile) x (Yellow plicata x yellow seedling).
- FLIRTATION. OR1. Sdlg. #50-1B. (Benson, Clifford W., Reg. 1953). Tall bearded, av. 38"; midseason. Deep pink self, fiery red beard. Pink Formal x ((Hall's 40-32 x Pink Sdlg.) x ((Pink Formal x (Hall's Pink Sdlg. x Pink Formal)))).
- FLORAMEL. OR1. (Moore, Mrs. Jas. D. (Orline), Reg. 1953). Tall bearded, av. 36"; early midseason. Pink self, tangerine beard. Melitta x Flora Zenor.
- FLORA WHITING. B1. Sdlg. #4225. (Whiting, Mrs. C. G. (Agnes), Transfer Reg. 1953). Tall bearded, av. 40"; midseason to late. Lobelia blue self, white beard. ((Missouri x Gloriole) x Belmont. Name transferred from obsolete, original seedling, never introduced, registered in 1939.
- FLORETTA. VR1. Sdlg. #4717. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Tall bearded, av. 24"; midseason. Orchid pink self, white beard tipped yellow. Remembrance x Pink Reflection.
- FOOTLIGHTS. W1. (Rundlett, Edwin, Reg. 1953). Tall bearded, av. 40"; midseason to late. White self; beard lemon, tipped white. (Seedling 5137: King High x Venus de Milo) x (Seedling 5139: Lake George x Silver Lustre).
- FORLEATHIA. W2. Sdlg. #50-50. (Ellyson, Craig D., Reg. 1953). Tall bearded, av. 41"; midseason. Plicata: Stds. white heavily stippled blue-lavender; Falls white, bordered $\frac{1}{4}$ " with blue-lavender. San Francisco x #46-09: (San Francisco x The Sentinel).

- FORMOSA. RV1. (Dormon, Miss Caroline; Reg. 1953). *A. hexagona* (La.), av. 40"; midseason. Red-violet self (Auricula purple, M&P), central portions edged pale gold. The Khan x Haile Selassie.
- FORT BRIDGER. B1. Sdlg. #49-N-16A. (Naylor, M. D., Reg. 1953). Tall bearded, av. 43"; midseason early. Flax blue self. Inspiration x Winter Carnival.
- FOXGLOVE BELLS. RV3. (Dormon, Miss Caroline, Reg. 1953). *A. hexagona* (La.), av. 30"; midseason. Bitone, medium red-violet tones (Foxglove and Hepatica, M&P). Unknown; collected.
- FRIVOL. RO3. Sdlg. #5023. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Tall bearded, av. 32"; midseason to late. Bicolor: Stds. Coral Pink (Wilson), Falls same, edged Orange Buff (Wilson), haft same. Chantilly x Lavender and Gold Lace.
- FRONT GATE. W1. (Rogers, Guy, Reg. 1953). Tall bearded, av. 38"; midseason. White self. Helen McGregor x Sylvia Murray.
- FRONTIER DAYS. R1. (Tompkins, C. W., Reg. 1953). Tall bearded, av. 36"; midseason to late. Self, of Cardinal Carmine Red. Manana x Technicolor.
- FUCHSIA JEWEL. VR3. (Cooper, Miss Annie, Reg. 1953). Sdlg. #52-01. Tall bearded, av. 36"; midseason. Light fuchsia bitone; standards slightly darker than falls. Tally Ho x Melody Lane.
- GALATEA. YO1. (Schreiner, Robt., Reg. 1953). Tall bearded, av. 38"; early midseason. Self, of peachy golden tan. Golden Eagle x Buffawn.
- GALLANT KNIGHT. R3D. (Tompkins, C. W., Reg. 1953). Tall bearded, av. height 38"; midseason to very late. Bitone: Tones of dark brown-red, or mahogany. Prairie Fire x Garden Glory.
- GARNET ROYAL. Sdlg. #10 N-1. R1. (Corey, Mrs. Preston E. (Miriam E.), Reg. 1953). Tall bearded, av. height 30"; midseason to late. Garnet red self, no markings. Does not fade. Ebony Echo x Garden Glory.
- GARNET TREASURE. RV3. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 8-10"; midseason to late intermediate. Bitone: Stds. light phlox purple, Falls deep petunia purple, wide border of phlox purple; white beard. Minnie Colquitt x *pumila* violet.
- GAY INTRIGUE. W2. (Streibich, Mrs. Chas. (Belden), Reg. 1953). Tall bearded, av. height 36"; midseason to late. Plicata: Stds. almost solid bright purple on white ground; Falls white lightly edged same purple; orange beard. Tiffanja x Minnie Colquitt.
- GAY WARRIOR. Y2. (Rudolph, Nathan H., Reg. 1953). Tall bearded, av. height 37"; midseason. Plicata: Stds. Indian Yellow (near Wilson 6/2), Falls same with white patch and edged with brown markings; green midrib underside of falls. Tiffanja x Royal Scot.
- GEM VALLEY. RV1. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded,

- av. height 38"; midseason. Raspberry-lavender self. Dreamcastle x Pink Tower.
- GHEENS WHITE. W1. (Davis, Claude W., Reg. 1953). *Apogon hexagona* (La.); early, av. height 40". White self, golden yellow signal patch at crest. Parents collected, unknown.
- GINGER. Y1. (Schreiner, Robert, Reg. 1953). Tall bearded, av. height 37"; midseason late. Golden tan self, deeper solid throat. (Bryce Canyon x ((Prairie Sunset x (Aubanel x Sch. #81-36))) x Casa Morena.
- GLO KEN COY. V1. (Duplechain, Mrs. W. E., Reg. 1953). *Apogon hexagona* (La.), av. height 48-54"; midseason. Violet self (V5 Fisher); yellow signal bordered white. G. C. type bloom. collected.
- GLORY ROAD. Sdlg. #50-D-2. R3. (Burns, Mrs. Edythe, Reg. 1953). Tall bearded, av. height 38"; midseason to late. Red bitone: Stds. rose-ash (M&P), Falls very dark red overlaid black. Mexico x Solid Mahogany.
- GLOWING AMBER. O5. (Craig, Tom, Reg. 1953). Tall bearded, av. height 45"; midseason to late. Golden amber background, with burnt umber and sepia over-glaze in smoky radiating pattern. Joseph's Mantle x Rich Raiment.
- GLOWMOHR. RV3. (Craig, Tom, Reg. 1953). *Eupogocyclus* hybrid, av. height 30"; early midseason. Bitone: Stds. French Lilac (M&P), Falls Windflower with Belladonna accent, Roseglow markings. Full Mohr-type flower, rosy-lilac bitone with golden amber undertone. #7-302 x Capitola. 7-302 is Mitch. 5-4 Buff plicata x (China Maid x Tiffany).
- GOLD CASTLE. Y3. (Austin, Lloyd, Reg. 1953). Tall bearded, av. height 44"; late. Bitone: Stds. intense bright yellow, Falls very deep orange yellow. Berkeley Gold x Casa Morena.
- GOLDEN BUTTERFLY. Y3. (Austin, Lloyd, Reg. 1953). *Eupogore-gelia* hybrid, av. height 22"; early midseason. Bintone: Stds. light yellow, Falls same with deep yellow hafts and prominent white stripe down center. Ola Kala x *hoogiana*.
- GOLDEN CHAMP. Sdlg. #52-32. Y1. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. height 36"; midseason. Old gold self, deep orange beard. Ola Kala x Spun Gold.
- GOLDEN CORONA. Y4. (Crosby, Mrs. Luzon, Reg. 1953). Tall bearded, av. height 36"; midseason to late. Bicolor: Stds. deep yellow, Falls white banded deep yellow; beard deep yellow. (Lancaster x Daybreak) x Pink Formal.
- GOLDEN ROCKET. YO1. (Perrigo, Jeanne R., Reg. 1953). Tall bearded, av. height 34"; midseason to very late. Yellow Ochre self (M&P 11-L-7); fine network of brown veining in throat. Golden Eagle x Rocket.

- GOLDEN SANDSTORM. Y1. (Kendall, Mrs. J. A. (Grace), Reg. 1953). Tall bearded, av. height 42"; midseason. Golden yellow self, few brown haft markings. (Lockwood Sdlg. x Ola Kala) x Lockwood.
- GOLDEN SHEAVES. Y1. (Dormon, Miss Caroline, Reg. 1953). Apogon *hexagona* (La.) ; av. height 36"; midseason. Forsythia yellow self, chrome yellow signal patch. Kraemer Yellow x Reflected Light.
- GOLDENSONG. Y1. Sdlg. L51-42. (Lowry, Mrs. F. P. (Edith), Reg. 1953). Tall bearded, av. height 38"; midseason. Soft golden yellow self, few brown threads at hafts. Fairday x Autumn Brown.
- GOLDEN TAN. Y1. (Craig, Tom, Reg. 1953). Tall bearded, av. height 45"; midseason to late. Golden-tan self, with tones of caramel, Titian and Spice to Windsor Tan. Self effect. Good News x Molten.
- GOLDEN TWILIGHT. Y5. (Tompkins, C. W., Reg. 1953). Tall bearded, av. height 38"; midseason. Light golden blend, near golden self. Cascade Splendor x Honeyflow.
- GOLD-N-OPAL. Y5. (Prentiss, Z. R., Reg. 1953). Tall bearded, av. height 30"; midseason. Blend of gold and lavender; Falls lavender or opal overlaid gold; Stds. mostly gold. Unknown.
- GOOD MANNERS. W1. Sdlg. #E-27-3. (Hinkle, Mrs. W. J. (Georgia M.), Reg. 1953). Tall bearded, av. height 38"; midseason. White self, beard white to yellow at heart. First Affection x Hinkle #C-24-1.
- GOSPER. Y4. (Brown, Opal L., Reg. 1953). Tall bearded, av. height 38"; late. Yellow bicolor: Stds. light lemon, Falls white, lemon veining. Gold Ruffles x Spanish Peaks.
- GRACELLE. RV1. (Albright, Mrs. Margaret Y., Reg. 1953). Tall bearded, av. height 34"; midseason. Orchid pink self, gold beard. Dreamcastle x (50-08:Muhlestein pink #4604 x Pres. Pilkington).
- GRAND LADY. VR1. Sdlg. #B5203. (Barton, Mrs. Thelma G., Reg. 1953). Tall bearded, av. height 36"; midseason. Violet-red Self (Fischer #6); yellow beard, Chantilly edging Matula x Chantilly.
- GRAND SIR. V1. Sdlg. #B5204. (Barton, Mrs. Thelma G., Reg. 1953). Tall bearded, av. height 36"; midseason. Victoria Violet (Wilson) Self, blue beard. Dymia x Sable.
- GRAND TRAVERSE. B1M. (Fairman, Earl A., Reg. 1953). Tall bearded, av. height 40"; midseason to late. Medium blue self. Winter Carnival x Great Lakes.
- GREAT DAY. OR1. (Tompkins, C. W., Reg. 1953.) Tall bearded, av. height 36"; midseason. Orange red self. (Bandit x Technicolor) x (Manana x Rocket).
- GREAT WHITE HERON. W1. (Marx, Walter, Reg. 1953). Apogon Japanese, semi-double; av. height 60"; early to midseason. White self. Koroho x Betty F. Holmes.

- GREEN FOG. Y4. (Hysell, Ruby M., Reg. 1953). Tall bearded, av. height 48"; midseason. Yellow bicolor: Stds. chartreuse, Falls faint gray. Brown marks at haft, yellow beard. Wabash x unknown (Pink bloom received as favor at regional meeting Region 6, at Fort Wayne, Indiana, from banquet table.)
- GREEN HAT. Y4. (Murray, G. H., Reg. 1953). Tall bearded, av. height 38"; midseason to late. Yellow bicolor: stds. Chartreuse, Falls Hazelnut Brown. Deep gold beard. Color-effect green-brown. Sdlg. #17-48: (Green Pastures x Melitza) x Appointee.
- GREEN IVORY. Y1L. (Muhlestein, Tell, Reg. 1953). Tall bearded, av. height 38"; midseason late. Ivory self, greenish tinge. Desert Song x Sister to Greenglow.
- GUSSIE. RV1. Sdlg. #89K-L. (Corey, Mrs. Preston E. (Miriam E.); Reg. 1953). Tall bearded, av. height 34"; midseason. Orchid self, light yellow on haft. Extremely lacy edges both stds. and falls. Chantilly x 50H-L: (Daybreak x Midwest Gem.)
- HALF PINT. B1L. Sdlg. #L-536. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 3", early dwarf season. Light blue self, some darker reticulations; pale blue beard. Violet Gem x H-503: (Sulina x Cook 1546). Cook 1546 is from (Azurea x *pumila*) x *pumila*.
- HALLMARK. R1L. (Hall, David F., Reg. 1953). Tall bearded, av. height 34"; early. Self, of rosy pink, with prominent red beard. Two pink seedlings.
- HALOLIGHT. OY1. (Schreiner, Robert, Reg. 1953). Tall bearded, av. height 42"; late. Self, of very soft buff tan. Alpine Glow x Gypsy Rose.
- HAPPY HEART. Y1. (Tompkins, C. W., Reg. 1953). Tall bearded, av. height 40"; midseason. Dark yellow self. (Easter Gold x Ola Kala) x (Cape Bon x Seashell).
- HAPPY MEETING. W2. Sdlg. #D493-51-19. (Lyon, David Wm. Reg. 1953). Tall bearded, av. height 36"; late midseason. Plicata; ivory-white with soft lilac border markings; Falls white, bordered same as stds. Lovelace x New Hope.
- HAPPY THOUGHT. Y1L. (Douglas, Geddes, Reg. 1953). Intermediate bearded; av. height 10"; midseason intermediate bloom. Self, of soft sulphur yellow, Tall bearded yellow seedling x *pumila* violet.
- HAREM BEAUTY. W4. (Vallette, Mrs. C. W. (Wilma); Reg. 1953). Tall bearded, av. height 34"; midseason. White Bicolor: Stds. white, Falls pinkish rose. Yellow beard. Chantilly x (Muhl. 47-72D: (Gold Ruffles x (Alice Harding x Type Dore))).
- HARIB PASHA. V5. Sdlg. #2-B-53. (White, Clarence G., Reg. 1953). Eupogocylus hybrid; av. height 28"; midseason. Blend: Stds. vivid violet, penciled hyacinth violet; Falls blackish red purple, buff stip-

pling around black signal patch. Unknown.

HARMONIZER. B1L. Sdlg. #2-50. (Greenlee, Mrs. R. E. (Wilma), Reg. 1953). Intermediate bearded; av. height 21"; midseason, intermediate. Light blue Self, olive-toned haft, yellow beard. Mauve Mist x Tall bearded unknown tetraploid.

HARVEST BOUNTY. O1M. (Howe, O. R., Reg. 1953). Tall bearded, av. height 36"; late. Chestnut brown Self (M&P 7-L-11); orange-bronze beard. (Marimba x Bryce Canyon) x Autumn Brown.

HEADLINES. W4. (Brummitt, Leonard W., Reg. 1953). Tall bearded, av. height 36"; very late. Bicolor: Stds. pure white, Falls "near black", velvety. Extravaganza x Louise Blake.

HEATHERLANDS. W2. (Craig, Tom, Reg. 1953). Tall bearded, av. height 40"; spring and fall. White-ground "fancy" plicata: Stds. marked purple heather brushed on white; Falls woodviolet striated or brushed on white. Joseph's Mantle x Royal Band.

HELLEBORE. R1. (Taylor, Carl C., Reg. 1953). Tall bearded; av. height 38"; midseason. Self, of deep Hellebore Red, bright orange beard. Gentle Florence x Tobacco Road.

HIGH FASHION. Y1L. (Crosby, Mrs. Luzon, Reg. 1953). Tall bearded, av. height 36"; midseason late. Cream Self. Gold Ruffles x (Muhlestein pink Seedling, sister to Salmon Shell, x 46-2F).

HIGH HAT. RV1L. (Davis, Claude W., Reg. 1953). *Apogon hexagona* (La.); av. height 48"; midseason. Self, of light reddish-purple (M&P 42-L-10). Prominent dagger crest of goldenrod yellow. Collected clone of *I. giganticaerulea* x Peggy-Mac.

HIGH HEAVEN. B1M. Sdlg. #48-33-1. (Plough, Gordon W., Reg. 1953). Tall bearded, av. height 36"; early to midseason. Medium blue self, bright tone, lighter area around beard. Snow Flurry x Great Lakes.

HIGH NOON. Y2. (Gibson, J. M., Reg. 1953). Tall bearded, av. height 38"; midseason. Yellow-ground plicata with cooper stippling, white area in falls. (Sdlg. #176A:Misty Rose x 115A) x Sdlg. #201C.

HIGH VOLTAGE. RV3. (Davis, Claude W., Reg. 1953). *Apogon hexagona* (La.), av. height 48"; early. Bitone: Stds. Belladonna Violet (M&P 44-J-7); Falls Grape Juice Purple (M&P 41-L-10), heavily veined darker. Pod parent collected; open pollinated, unknown.

HONEYSWEET. YO1. (Dormon, Miss Caroline, Reg. 1953). *Apogon hexagona* (La.); av. height 36"; midseason. Yellow-orange self (Honeysweet, M&P); faint deep lavender-rose line down center of each segment, (Dan Debaillon x big Abbeville yellow) x (Dan Debaillon x big magenta).

HOPE ALLEN. R5. (Wheeler, W. A. Reg. 1953). Tall bearded, av.

- height 32"; midseason. Blend of pink and lilac, heavy gold haft. Daybreak x (Daybreak x SQ 72).
- HORACE DUNN. RV3. (Hunt, Eugene A., Reg. 1953). Tall bearded, av. height 34-36"; midseason. Red-violet Bitone: Stds. Pansy violet (033/3 630 Wilson); Falls 033/1 630 Wilson). Hafts Mimosa Yellow. Madame Louis Aureau x Tiffany.
- HOYDEN. RV4. (Marx, Walter, Reg. 1953). Apogon Japanese; av. height 48"; midseason to late. Bicolor: Stds. red-violet, Falls white. Jeanette Parry x Karahashi.
- IMPERIAL VELVET. RV3. (Marx, Walter, Reg. 1953). A. Japanese, av. height 40"; midseason to late. Bitone: Stds. red violet, Falls same but near beet red. Oriole x Karahashi.
- IMPROMPTU. O1. Sdlg. #25-1. (Jones, Bennett C., Reg. 1953). Tall bearded; av. height 40"; midseason. Bright apricot self. (Dogrose x Melitta) x Floradora.
- INCHALONG. Y3. Sdlg. #746. (Cook, Paul H., Reg. 1953) Dwarf bearded, av. height 4"; early. Yellow bitone: Stds. Barium yellow, Falls Citron yellow (Ridgway); Beard white, hairs lightly tipped Lemon Chrome. Seedling from (Socrates x *pumila*) x Seedling from (*chamaeiris* Balkana x *mellita*).
- INDIAN LAND. OR1. (Voris, Chas. Wm., Reg. 1953). Tall bearded, average height 34-36"; midseason to very late. Red-henna or coppery-red self. Bryce Canyon x Veishea.
- INKY. V1D. (Reinhardt, Mrs. Robert M., Reg. 1953). Dwarf bearded; av. height 7½"; early dwarf to midseason dwarf. Black-violet self. Sass Dark Ruby x Seedling.
- INSIDE PASSAGE. BV1D. (Brown, Opal L., Reg. 1953). Tall bearded, av. height 40"; early midseason. Dark blue violet self. Old gold at hafts. Rainbow Room x Chamois.
- IVORY WORK. Y3. Sdlg. #22-49. (Wills, Jesse, Reg. 1953). Tall bearded, av. height 37"; midseason. Yellow bitone: Stds. cream, Falls ivory bordered deeper cream. Star Shine x Amandine.
- JACK O'HEARTS. RV1. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 8"; midseason to late int. bloom. Red-violet self, deeper overlay on Falls. Beard lavender. Minnie Colquitt x *pumila* violet.
- JANIE. YO1. (Voris, Chas. Wm., Reg. 1953). Tall bearded, av. height 40"; midseason to late. Buff self, solidly gilded, tan haft markings. Golden Russet x Pink Sensation.
- JUNE MEREDITH. R1L. Sdlg. #51-11 D. (Muhlestein, Tell. Reg. 1953). Tall bearded, av. height 36"; midseason to late. Pink self. Party Dress x Pink Fulfillment.
- JUNE SUNLIGHT. Y1. (Williamson, Mary, Introducer, Reg. 1953).

Tall bearded, av. height 36"; late. Light Cadmium yellow Self, orange beard. Treasure Island x Spun Gold.

JUNGLE DRUMS. V5. (Plough, Gordon W., Reg. 1953). Eupogoclycus hybrid; av. height 28"; early to late. Blend: Stds. grayed lavender splashed light brown; Falls buff, heavily splashed deep purple. Onco type bloom. Seedling Craig #5: (Purissima x Capitola) x Joppa Parrot. Name released by Mrs. Mary Tharp; her registration never introduced.

JUSTIN DOIRON. Y1. (Roberts, Mrs. J. C. (Joy); Reg. 1953). A *hexagona* (La.); av. height 24-30"; extra early. Clear yellow self (M&P 10-L-3), veined. Collected plant.

JUST KATE. VB1. (Davis, Claude W., Reg. 1953). A. *hexagona* (La.); av. height 48"; midseason. Violet-blue self (Lobelia Blue, M&P 42-J-12), radiating crest of chartreuse. Unknown.

KANAB. R1. (Crosby, Mrs. Luzon, Reg. 1953). Tall bearded, av. height 40"; early to late. Reddish-brown self, narrow zig-zag edging of gold on Stds. and Falls. (Aztec Copper x Tobacco Road) x (Midwest Gem x Honeyflow).

KAREN SUE. Y1. (Wilde, Mrs. C. A., Reg. 1953). Tall bearded, av. height 40"; midseason to late midseason. Bright yellow self, orange beard; haft lightly brushed pinkish-fawn. Happy Days x Lloyd Austin hybrid.

KATHRYN GRUBER. Y3. (Burch, J. E., Reg. 1953). Tall bearded, av. height 36"; midseason. Bitone: Stds. bright yellow, Falls same changing to buff toward edge of falls. Ola Kala x Bermuda Sand.

KEN. VB1. (Rundlett, Edwin, Reg. 1953). Tall bearded, av. height 40"; midseason. Hyacinth Blue self (Ridgway), gold beard, blue tipped. (Lake George x Brunhilde) x Ebony Queen.

KATHY JEAN. R1. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded, av. height 34"; midseason. Rose self. Red Douglas x The Capitol.

KING'S CROWN. RV1. (Shinkle, Mrs. Herbert (Berniece); Reg. 1953). Intermediate bearded av. height 8"; early. Royal purple self, velvety Falls. Snow-white beard. Dwarf seedling B 41 SB x Peewee.

LABAN EFFENDI. RV5. (White, Clarence G., Reg. 1953). Eupogoclycus hybrid, av. height 32"; midseason. Blend: Stds. Foxglove, Falls Catawba, blended and veined on lighter ground. Near-black signal. Unknown.

LADY ELSIE. R3. Sdlg. #D628-51-14. (Lyon, David Wm., Reg. 1953). Tall bearded, av. height 38"; late midseason. Bitone: Stds. soft pink, Falls pale pink. Char-Maize x Lyon Sdlg. #D321-48-7.

LADY MACBETH. Y2. (Hunt, Eugene A., Reg. 1953). Tall bearded, av. height 37"; midseason. Plicata: Stds. heavily flushed maroon on cream ground; Falls heavily flushed same on cream. Madame Louis Aureau x Tiffany.

- LAGNIAPPE. R1L. (Davis, Claude W., Reg. 1953). *Apogon hexagona* (La.); av. height 36"; midseason. Blush rose self (M&P 5-G-4). Unknown. One of several seedlings from test garden and donated, or given as "lagniappe" at annual meeting of La. Society.
- LALORO. Y1D. (Long, B. R., Reg. 1953). Tall bearded, av. height 34"; early. Deep yellow self. Treasure Ship x sister seedling of Songs Before Sunrise.
- LARGESSE. Y1L. Sdlg. #64-49. (Wills, Jesse, Reg. 1953). Tall bearded, av. height 35"; midseason. Pale yellow or cream self, slightly deeper at haft. Amandine x (Fairy Lustre x Golden Eagle).
- 'LASSES TAFFY. Y1. (Albright, Margaret Y., Reg. 1953). Tall bearded, av. height 36"; midseason. Golden tan self, blue dot at base of gold beard. Mexico x Moontide.
- LAST SNOW. W1. (Suiter, Mrs. Glenn (Melvina), Reg. 1953). Tall bearded, av. height 48"; very late. White self, white beard. Blue Champagne x Sylvia Murray.
- LAURENTIAN LADY. B1P. Sdlg. #52-A-1. (Moffat, W. J., Reg. 1953). Tall bearded, av. height 40"; midseason. Pale blue self, no lavender tones. New Snow x Elizabeth of England.
- LAVANESQUE. RV3. (Schreiner, Robert, Reg. 1953). Tall bearded, av. height 40"; early midseason. Bitone: Stds. light orchid pink, Falls darker orchid pink. Dreamcastle x ((Angelus x ?) x (Matula x Sch. #8-37)).
- LAVENDER DAWN. V1L. Sdlg. G-534. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 5"; early. Lavender violet self, including beard. Balkana x I. mellita.
- LAVENDER GOWN. V3. (Prentiss, Z. R., Reg. 1953). Tall bearded, av. height 30"; midseason. Bitone: Stds. pale lavender, Falls rose lavender. Mary Geddes x Lent A. Williamson.
- LAVENDER HILL. RV1L. (Burns, Mrs. Edythe, Reg. 1953). Tall bearded, av. height 37"; midseason to late. Light red-violet self (M&P 43-F-7). Beard yellow to white at tip. Hiwassee x Pink Reflection.
- LAVENGLO. Y5. (Morgan, George P., Selector, Reg. 1953). Tall bearded, av. height 35"; midseason. Blend: Stds. buff, Falls lavender, edged gold. Valiant x Golden Hind.
- LAZY DAY. B1L. (Gorton, Mrs. J. M. (Clare), Reg. 1953). *Apogon hexagona* (La.); av. height 42"; midseason. Azure blue self. *Giganti-caerulea* type bloom. Unknown; parents collected.
- LEMON LIGHT. Y4. Sdlg. #1/V170. (Stevens, Mrs. Jean, Reg. 1953). Tall bearded, av. height 32"; early midseason. Reverse Bicolor: Stds. primrose yellow, Falls white suffused pale yellow. (Wabash x (Gudrun x (Lady Morvyth x Rangatira))) x (Inspiration x (Lagos

x (Gudrun x (Lady Morvyth x Rangatira))) x (Fair Elaine x (Lagos x (Gudrun x (Lady Morvyth x Rangatira)))).

LIGHT HEARTED. W1. (MacMillan, W. B., Reg. 1953). *Apogon hexagona* (La.), av. height 40"; early to midseason. White self, creamy yellow influence; style arms canary yellow. Two chance seedlings.

LILLIPUT. VB3. (Douglas, Geddes). Intermediate bearded, av. height 15"; early to late intermediate season. Bitone: Stds. light lobelia blue, Falls same overlaid deep lobelia blue. White beard. Helen McGregor x *pumila* blue.

LINGERING LIGHTS. Y3. (Burns, Mrs. Edythe, Reg. 1953). Tall bearded, av. height 38"; midseason to late. Yellow-toned Bitone: Stds. Amber White (M&P) edged Chartreuse (M&P), Falls same. Beard and haft canary. Sunny Ruffles x Vision Fugitive.

LITTLE BALKAN. RV1D. Sdlg. #K-508. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 4½"; extra early. Mulberry purple self, violet beard. Sulina x Nana.

LITTLE MOHEE. O3. (Grapes, Vivian, Reg. 1953). Dwarf bearded, av. height 5"; extra early. Blended bitone: Stds. light brown, Falls darker brown, narrow border of yellow. Orange Queen x V. Grapes Sdlg. 250: (light blue *pumila* from Sulina).

LITTLE SHADOW. BV1D. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 12"; early midseason intermediate. Self of deep blue-violet, beard blue-violet. Gulf Stream x *pumila* blue.

LITTLE SWEETHEART. Y4. (Crosby, Mrs. Luzon, Reg. 1953). Tall bearded, av. height 30"; midseason to late. Bicolor: Stds. light yellow, Falls same with white center. Chantilly x Song of Songs.

LITTLE VILLAIN. V1D. Sdlg. #K-523. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 6½"; early dwarf season. Black Violet self, white beard, smooth haft. Stds. silky, Falls velvety. ((San Francisco x *pumila*) x (*chamaeiris*)) x sister.

LOMA DE ORO. Y1. Sdlg. #D25-50. (Lyon, David Wm., Reg. 1953). Tall bearded, av. height 38"; midseason. Deep Empire yellow self. Char-Maize x Gay Senorita.

LORELEI. Y4. Sdlg. #53-8. (Robinson, Mrs. Geo. D. (Fern), Reg. 1953). Tall bearded, av. height 34"; midseason. Bicolor: Stds. soft light yellow, Falls bright rose pink. (Song of Gold x Red Amber) x Chantilly.

LOUISE OF THREE OAKS. Y5 (Hodges, Mrs. G. L., Reg. 1953). Tall bearded, av. height 40"; early. Blend: Stds. Oyster gray shading to linden green at edge; Falls wild iris edged grape green, pale yellow upper haft; orange beard. Lady Paramount x unknown.

LOUISE PRIETO. W1. (Iglehart, Mrs. C. M., Reg. 1953). Tall bearded,

- av. height 40"; early through midseason. White self, beard soft yellow. Unknown.
- LUMINARY. R1. (Long, B. R., Reg. 1953). Tall bearded, av. height 42"; early. Self, of light reddish terra-cotta. Two seedlings.
- LUANNA AVEN. OR1. (Rees, George N., Reg. 1953). Tall bearded, av. height 32"; midseason. Self, of "Pink Cameo" (M&P), tangerine beard. Pink Cameo x Pink Cameo.
- LUCY HODIL. V1L. (Hodil, E. R., Reg. 1953). Tall bearded, av. height 36"; midseason. Clear Lavender Self, white beard. Sierra Blue x unknown.
- LUCY LILT. Y5. (Burns, Mrs. Edythe, Reg. 1953). Tall bearded, av. height 37"; midseason. Blend: Stds. yellow-tan, upper part of Falls same, lower 2/3 to orchid pink. Pink Ruffles x Sunset Tan:
- LUNAR MIST. Y5. (Tompkins, C. W., Reg. 1953). Eupogoclycus hybrid, av. height 36"; midseason. Light amber blended with lavender blue. (Congres x Mme. L. Aureau) x (Golden Hind x Wabash).
- LUSCIOUS. Y1. (Carney, Robert S., Reg. 1953). Tall bearded, av. height 32"; early. Self of Egyptian Buff (Wilson 407/3). (Seedling: Saluskin x Pink Lace) x Gay Orchid.
- LUSTROUS. Y2. (Ulrich, Mrs. Bernard E., Reg. 1953). Tall bearded, av. height 34"; midseason. Plicata: Stds. rose-purple on yellow ground, Falls yellow with rose-purple edging. Tiffany x Orloff.
- LUSTROUS PINK. OR1. Sdlg. #52-30. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. height 34"; midseason. Self, flamingo pink, center slightly deeper and orchid-toned. Tally Ho x Courtier.
- MAGIC MOUNTAIN. OR1. (Howe, O. R., Jr., Reg. 1953). Tall bearded, av. height 44"; early. Medium pink self (M&P 1-F-7), tangerine beard. Buneaux sdlg. 4305 x (Pink Seedling x Carabella).
- MAIDEN QUEEN. W1. (Long, B. R., Reg. 1953). Tall bearded, av. height 40"; midseason. White self. Celia Grant x Great Lakes.
- MAJOR EFF. VB1M. Sdlg. #47-7. (Watkins, Edw., Reg. 1953). Tall bearded, av. height 42"; midseason. Medium violet blue self. ((Shining Waters x Gloriole) x Great Lakes)) x Cloud Castle. Name transferred from 1952 registration, not introduced.
- MALLOW MARVEL. OR1. (Schreiner, Robert, Reg. 1953). Tall bearded, av. height 36"; midseason. Flamingo pink self. Unknown x (Overture x TQ 41A).
- MAMA. W1. (Savage, Mrs. V. (Rosyl), Reg. 1953). Eupogoclycus hybrid, av. height 38"; midseason. White self. Snoqualmie x Wm. Mohr seedling.
- MANHATTAN. Y01. (Scott, Mrs. Ernest L. (Aleita), Reg. 1953). Tall bearded, av. height 37"; midseason. Self, of light tan. Mexico x Tobacco Road.

- MARGARET CRUISE. Y3. (Eckels, Richard P., Selector, Reg. 1953). Tall bearded, apparently one-quarter onco, av. height 33"; early through midseason. Bitone: Stds. Empire Yellow (Ridg.); Falls same washed and finely lined in center in Hazel Brown; beard Primuline Yellow. Unknown.
- MARGARET ELLA. RV5. (Hysell, Ruby M., Reg. 1953). Tall bearded, ax. height 48"; midseason. Blend: Stds. lavender, shaded to buff at center; Falls lavender, deep brown at haft shaped like butterfly wings; beard deep orange. Mother's Day x unknown.
- MARVEL BURCH. VR4. (Burch, J. E., Reg. 1953). Tall bearded, av. height 42"; midseason. Bicolor: Stds. lavender pink, Falls deep violet, white margin. Wabash x Seedling #47-1-P, from Memories.
- MARY G. VORIS. RV1. Sdlg. #VBC4814. (Voris, Chas., Reg. 1953). Tall bearded, av. height 30"; midseason to late. Cerise purple self, blue spot at tip of beard. Bryce Canyon x Veishea.
- MARY LAMBDIN. R3. (Winston, Mrs. Saml. (Catherine H.), Reg. 1953). Apogon *hexagona* (La.), av. height 24"; midseason. Bitone: Stds. Meadow Sweet (M&P 48-K), veined Clove Pink; Falls Grecian Rose (M&P 39-G) to Tango Pink. Uncontrolled cross.
- MAUVEDUST. RV3. (Craig, Tom, Reg. 1953). Eupogocyclus hybrid, av. height 38"; midseason. Bitone: Stds. Mauvedust (M&P), Falls same delicately veined pansy violet, beard yellow ochre. Mohr-type flower. Sdlg. #7-302 x Capitola. (#7-302 is plicata, Mitchell's 5-4 x (China Maid x Tiffany).
- MERRY-GO-ROUND. BV1D. (Long, B. R., Reg. 1953). Tall bearded, av. height 45"; midseason. Self, of deep blue violet. (Celia Grant x Great Lakes) x Classic Blue.
- MERRY MAKER. VR1. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 8", late intermediate season. Deep Magnolia Purple self, bright orange beard. Minnie Colquitt x *pumila* violet.
- MEXICANA ROSE. R5. (Ulrich, Mrs. Bernard, Reg. 1953). Tall bearded, av. height 36"; midseason. Deep rose blend, tan veining at haft, orange yellow beard. Prairie Sunset x Brown Thrasher.
- MIDNIGHT BLUE. B3. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. height 36"; late. Bitone: Stds. medium "midnight" blue, Falls darker. Black Forest x Chivalry.
- MIDWEST GOLD. Y1F. Sdlg. #48-419. (Sass, Henry E., Reg. 1953). Tall bearded, av. height 36"; midseason. Buttercup yellow self (Full deep yellow, Wilson). (Yellow Sdlg. 42-64: (Happy Days x 40-23) x (Mme. Louis Aureau x Y. Plicata) x Ola Kála.
- MILLAMONT. B3. (Darnell, W. G., Reg. 1953). Tall bearded, av. height 48"; midseason. Blue bitone: Stds. ice blue, Falls silver-flushed blue. White City x Wabash.

- MISCHIEF. Y4. (Reinhardt, Mrs. Robt. M., Reg. 1953). Tall bearded, av. height 34"; midseason to late. Bicolor: Stds. golden yellow, Falls burnt ochre (M&P 3-G-12). Red Torch x Gypsy.
- MISS CHRISTINE. Y1L. (Watkins, Edw., Reg. 1953). Tall bearded, av. height 34"; midseason. Yellow-cream self. Spun Gold x Katherine Larmon.
- MISS KALAMAZOO. V1. (Briggs, John L., Reg. 1953). Tall bearded, av. height 30"; midseason. Violet self, white haft marks; beard gold tipped blue. Indian Hills x Tiffany.
- MISS MOHR. V5. (Austin, Lloyd, Reg. 1953). Eupogocyclus hybrid, av. height 27"; early midseason. Blend: Stds. pale lavender, flushed and penciled pale yellow; Falls light buff chartreuse, flushed light brownish lavender, veind darker. Golden Majesty x Capitola.
- MOBY DICK. W1. Sdlg. #48-182. (Sass, Henry E., Reg. 1953). Tall bearded, av. height 38"; midseason. White self. Miles blue Sdlg. #2 x Alba Superba. Name released by Wm. Miles, owner of Groff un-introduced seedling (originator deceased).
- MODESTY. Y4. (Taylor, Carl C., Reg. 1953). Tall bearded, av. height 38"; midseason. Reverse Bicolor: Stds. clear yellow, Falls white; orange beard. (White Ruffles x Sdlg. V20).
- MOHR COURAGEOUS. RV1. (Naylor, M. D., Reg. 1953). Eupogocyclus hybrid, av. height 40"; midseason. Dark Dahlia Purple Self. William Mohr x White Sdlg. 48-N-60: (Snow Flurry x Winter Carnival).
- MOHR ELEGANCE. V1P. (Austin, Lloyd, Reg. 1953). Eupogocyclus hybrid, av. height 32"; early midseason. Pale lavender self. Snow Flurry x Capitola.
- MOHR LUCK. V1. (Till, Henry S. Jr., Reg. 1953). Eupogocyclus hybrid, av. height 30-34"; late midseason to late. Self; Lavender blue, stippled and striped like Wm. Mohr, with white area under veining at hafts, white beard. Mohr form bloom, signal patch effect. Elmohr x tall bearded light blue Sdlg., unknown.
- MOHR PINK. RV1. Sdlg. #51-78. (Fay, Orville W., Reg. 1953). Eupogocyclus hybrid, av. height 36"; midseason. Orchid-toned pink self, tangerine beard. Mohr-type bloom. Beard has some blue in its tangerine. Elmohr x Pink Cameo.
- MORNING FAIRY. W1. Sdlg. #L51-5. (Lyon, David Wm., Introducer, Reg. 1953). Apogon California (*douglasiana* hybr.), av. height 12-15"; April-June. Blue-white self, with light pale blue feathering. Unknown.
- MOUNT MAZAMA. RV1. (Bailey, Mrs. Albert R., Reg. 1953). Eupogocyclus hybrid, av. height 36"; midseason. Red-violet self, deeper in center of falls. Orange beard. Large, round, Mohr-type bloom. William Mohr x Morocco Rose.

- MOUNT SHASTA. W1. (Streibich, Mrs. Chas. (Belden W.), Reg. 1953). Tall bearded, av. height 42"; early to midseason. White self, light yellow beard. Snow Flurry x Azure Skies.
- MOURNING DOVE. V5. (Craig, Tom, Reg. 1953). Eupogocyclus hybrid, av. height 32"; early. Blend: Stds. light gray, lavender toned (Moonbeam and Pearlshell, M&P); Falls yellow-green tones (Eucalyptus to Old Ivory) stippled and veined sandalwood fading to pale tan. Beard Amber-Plumbago Gray. Large Mohr-type flower. Effect lavender-gray veined warm buffy gray. Mariposa Mia x Capitola.
- MRS. R. E. AYLETT. Y2. (Aylett, K. E., for deceased originator, Reg. 1953). Tall bearded, av. height 36"; midseason. Plicata: Stds. lemon yellow, Falls cream, heavily edged purplish brown overlaid old gold; orange beard. Batlow Beauty x Firecracker.
- MUTE LYRE. V4. (Long, B. R., Reg. 1953). Tall bearded, av. height 34"; midseason. Bicolor: Stds. pale grayish lavender, Falls red-violet edged color of Stds. Eternal City x Seedling.
- MYSTIC TOUCH. W1. (Ketchum, Mrs. Morgan (Marion), Reg. 1953). Tall bearded, av. height 38"; midseason. White self, yellow influence at haft. Two Hall pink Sdlgs.
- MCBRIDE. R3. (Harrison, Richard, Reg. 1953). Tall bearded, av. height 39"; midseason. Bitone: Stds. oxblood red, Falls deeper. Orange Glow x Rocket.
- NACHEKO. DV3. Sdlg. #53-28S. (Saunders, David V., Reg. 1953). Tall bearded, av. height 38"; early midseason. Bitone, red-violet tones (Stds. VR6 FCC, Falls VR2 or 3). Lothario x Mulberry Rose.
- NASHOBA. W1. (Carney, Robert S., Reg. 1953). Tall bearded, av. height 32"; midseason to late. White self, beard white. Katherine Fay x Azure Skies.
- NATIVE DANCER. OR1. Sdlg. #51-32. (Fay, Orville W., Reg. 1953). Tall bearded, av. height 36"; midseason. Flamingo Pink self, tangerine beard. (Fay Pink #48-41:(#46-1, Pink from Pink Cameo x I. pallida, x New Horizon) x Mary Randall).
- NEBAB PASHA. Y5. Sdlg. #49-B-52. (White, Clarence G., Reg. 1953). Eupogocyclus hybrid, av. height 30"; midseason. Blend: Stds. Chamois, splashed hydrangea red; Falls orange cinnamon base edged old gold, rose signal, splashed of carmine violet shading to burnt lake at petal edge. Unknown.
- NELL BABSON. R1. Sdlg. #C123-4. (Babson, Sanford L., Reg. 1953). Tall bearded, av. height 30-32"; early midseason. Deep rose self, tangerine beard. Orchid Lady x Hall Sdlg. 45-39.
- NEW ADVENTURE. W2. Sdlg. #51-56. (Muhlestein, Tell, Reg. 1953). Tall bearded, av. height 38"; midseason to late. Plicata: White ground edged lavender, tangerine beard. Loomis' Plicata from Sea Shell x Pink Formal.

- NEW LOVE. W1. Sdlg. #E-13-1. (Hinkle, Mrs. W. J. (Georgia M.) Reg. 1953). Tall bearded, av. height 36"; midseason to late. Creamy white self, cream beard. First Affection x Faught Sdlg. 19-H.
- NORJACK. W1. Sdlg. #B5201. (Barton, Mrs. Thelma G., Reg. 1953). Tall bearded, av. height 36"; midseason. White self, yellow beard. Katherine Fay x Great Lakes.
- OKLAHOMA SKIES. B1L. Sdlg. #T52-22. (Shilling, Robt. H., Reg. 1953). Tall bearded, av. height 36"; midseason to late. Silvery light blue self. Helen McGregor x Sylvia Murray.
- OLD CREEK. VBl. (Davis, Claude W., Reg. 1953). Apogon *hexagona* (La.); av. height 48"; midseason. Self, Hyacinth Blue (M&P 44-H-12); radiating white lines 1/3 length of falls. Parents collected, unknown.
- ON PARADE. Y4. (Crosby, Mrs. Luzon, Reg. 1953). Tall bearded, av. height 36"; early to late. Yellow Bicolor: Stds. deep yellow, Falls rich red. Louise Blake x Mist Glow.
- ORANGE BANNER. Y3. (Waters, Don, Reg. 1953). Tall bearded, av. height 34"; midseason to late. Bitone: Stds. and Falls Indian Yellow flushed Cadmium Orange (Wilson). Orangeman x Orange Gem.
- ORANGE FRILLS. OY1. (Suiter, Mrs. Glen (Melvina), Reg. 1953). Tall bearded, av. height 38"; midseason. Orange Apricot Self, white area at tip of heavy red-orange beard. ((Midwest Gem x Chantilly) x Gold Ruffles) x (Hall's 44-55 x Pink Formal).
- ORANGE GLINT. OY1D. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 7"; early. Self, of deep orange yellow, orange beard. (Seedling D-529: Sonny x Burchfield) x (Seedling D-523: Sonny x Burchfield).
- ORCHESTRA. V3. (Long, B. R. Reg. 1953). Tall bearded, av. height 32"; early to midseason. Violet Bitone: Stds. bright amethyst purple; Falls same with central zone of deep purple. Two seedlings.
- OSMAN PASHA. V5. Sdlg. #15-B52. (White, Clarence G., Reg. 1953). Eupogocylus hybrid, av. height 28"; midseason. Blend: Stds. lavender gray, splashed and penciled Dahlia Purple; Falls pinkish buff penciled Etruscan Red, splashed Dahlia purple. Unknown.
- OZARK MARY. R4. (Rees, George N., Reg. 1953). Tall bearded, av. height 36"; midseason. Bicolor: Stds. Phlox pink; Falls Lilac, distinct light stripe lengthwise of falls, gold at haft; orange beard. W. R. Dykes x Frieda Mohr.
- PANDORA. OR1. (Suiter, Mrs. Glen (Melvina), Reg. 1953). Tall bearded, av. height 42"; midseason. Deep pink Self, heavy pink beard. ((Midwest Gem x Chantilly) x Gold Ruffles) x Pink-white Sdlg., involving Melitta, Azalea and several whites.

- PANSY FRILLS. W1. (Ulrich, Mrs. Bernard, Reg. 1953). Tall bearded, av. height 34"; midseason. Plicata: White ground, pansy purple markings; yellow beard. Tiffany x Theodolinda.
- PARISIAN DOLL. B1L. Sdlg. #L51-1. (Lyon, David Wm., Introducer, Reg. 1953). Apogon californian (*douglasiana* hybr.), av. height 12-15"; midseason to late. Light blue Self. Unknown.
- PASTELLA. W1P. (Hall, David F., Transfer Reg. 1953). Tall bearded, av. height 38"; midseason. Self, pale lavender. Two pink seedlings. Name transferred from former seedling, registered but not released, and not in commerce.
- PATIENCE. RVI. (Schortman, W. B., Reg. 1953). Tall bearded, av. height 36"; midseason. Magenta Self (M&P 11-J-53). Snow Flurry x Inspiration.
- PATRICIAN. (Registered by Mrs. Nesmith for H. F. Hall, 1952). Hall W 36 x Hall W 28. Parentage information unavailable earlier because of illness of originator.
- PELICAN STATE. R3. (Gorton, Mrs. J. M. (Clare), Reg. 1953). Apogon *hexagona* (La.), av. height 42-48"; midseason. Bitone: Stds. Light Mahogany Rose, Falls deeper, heavily veined. Parents collected; unknown, but apparently *G. C.* and *Fulva* cross.
- PEPPERPOT. R01. Sdlg. #5030. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Tall bearded, av. height 24"; midseason to late. Reddish-orange Self, burnt orange overlay at haft. Pepper red (M&P, between oxblood and dark brick red (Wilson), Morocco red (Ridgway). Technicolor x Lodestone.
- PERSIAN MOHR. V3. (Austin, Lloyd, Reg. 1953). Eupogoclycus hybrid, av. height 33"; early midseason. Bitone: Stds. silvery violet, Falls dark mulberry, brown markings. Golden Majesty x Capitola.
- PHOEBUS APOLLO. Y1. (Eckels, Richard P., Selector, Reg. 1953). Tall bearded, av. height 32"; midseason. Wax Yellow (Ridg.) Self, deep chrome beard. Unknown.
- PIALA PASHA. V5. Sdlg. #1-B-53. (White, Clarence G., Reg. 1953). Eupogoclycus hybrid, av. height 28"; midseason. Blend: Stds. mauve penciled wax yellow, violet and purple; Falls vivid yellow, irregularly splashed hazel and liver brown. Unknown.
- PIANISSIMO. Y04. Sdlg. #51-1-LB. (Zurbrigg, Lloyd, Introducer, Reg. 1953). Tall bearded, av. height 35"; midseason. Bicolor: Stds. pale peach-pink; Falls white with orange-peach band $\frac{1}{4}$ " wide. Beard white at base, tipped peach-pink. Muhlestein Sdlg. #47-108 x Muhlestein Sdlg. #49-11.
- PIGMY GOLD. Y1. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 5"-12"; early to late intermediate. Bright chrome yellow self, falls overlaid velvety. Orange Glow x *pumila* yellow.

- PINK ALLURE. V3. (Scheffy, Mrs. Eliz., Reg. 1953). *Apogon siberica*; av. height 32"; late midseason. Bitone: Stds. light lavender, Falls same finely peppered deeper. Bright pink landscape effect. Selected seedling from Mrs. Perry seedlings x unknown.
- PINK CARNIVAL. OR1. (Ulrich, Mrs. Bernard, Reg. 1953.) Tall bearded, av. height 34"; midseason. Cameo-pink Self, tangerine beard. Loomis SQ-72 x Golden Eagle.
- PINK CLOVER. VR1. Sdlg. #5213. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Tall bearded, av. height 30"; midseason to late. Light violet-red self (Erythrite red, Wilson), peach overlay at haft, peach pink beard. Sdlg. #4910: (Hall 42-05 x Pathfinder) x Pathfinder.
- PINK ENCHANTMENT. OR1. (Mulhestein, Tell, Reg. 1953). Tall bearded, av. height 34"; early to midseason. Deep pink Self, beard pinkish-red. Raspberry Ice Cream x Muhlestein 49-11 (sister to Pink Fulfillment).
- PINK FLAME. R1. (Tharp, Mrs. Mary, Reg. 1953). Tall bearded, av. height 34"; midseason. Vivid pink (no salmon) self, beard deep pink, center of flower bright fuchsia-flame. (Gudrun x old Hall Sdlg. similar to Melitza) x Pink Formal.
- PINK LADY. OR1. (Ketchum, Mrs. Morgan (Marion), Reg. 1953). Tall bearded, av. height 44"; early. Pink self. (Cherie x Carabella) x Hall Sdlg.
- PINK MAID. VR3. (Austin, Lloyd, Reg. 1953). Tall bearded, av. height 36"; midseason late. Bitone: Stds. light orchid pink, Falls deep rose pink. Snow Flurry x unknown.
- PINK PEARLS. OR1. (Schuman, Mrs. A. H. (Diana), Reg. 1953). Tall bearded, av. height 36"; midseason. Flamingo pink self, beard same; no haft markings. Seedling #47-26 x Pink Formal.
- PINK PETALS. YOR1. (Christie, Mrs. Dorothy, Reg. 1953). Tall bearded, av. height 32"; midseason. Salmon pink self, bright tangerine beard. (N. Z. Mountain Lake x Hall pink Sdlg.) x (Tropic Moon x ((Naranja x Firelight) x (Golden Hind x Red Dawn)).
- PINK RHYTHM. OR1. (Ulrich, Mrs. Bernard, Reg. 1953). Tall bearded, av. height 34"; midseason. Flamingo pink self, tangerine beard. Pink Cameo x Golden Eagle.
- PINK WINE. RV1L. (Schreiner, Robt., Reg. 1953). Tall bearded, av. height 34"; midseason late. Light orchid self. Harriet Thoreau x ((Angeles x ?) x (Matula x Sch. #8-37)).
- PIONEER LADY. RV1L. (McKee, Mrs. Lois, Reg. 1953). Tall bearded, av. height 50"; early to midseason. Orchid Self. Snow Flurry x Lady Naomi.
- PITSA COOPER. Y5. (Mathiesen, Mrs. Sam, Reg. 1953). Tall bearded,

av. height 34"; late. Blend: Yellow ground blended with copper and blue, gold beard. Old Parchment x Lavender Mist.

PLEASETH ME. B1M. Sdlg. #E-1-1. (Hinkle, Mrs. W. J. (Georgia M.), Reg. 1953). Tall bearded, av. height 38"; midseason. Medium blue self, yellow beard tipped white. Zara x New Snow.

POGO. Y4. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 12"; midseason to late intermediate. Bright yellow self, mahogany spot on falls. (Golden Hind x Yellow Jewel) x *pumila* yellow.

PORT. R1D. (Craig, Tom, Reg. 1953). Tall bearded, av. height 36"; late, reblooms. Deep red self, irridescence of burnt sienna on falls. Garden Glory x Molten.

PRAIRIE DAWN. Y5. (Tompkins, C. W., Reg. 1953). Eupogocyclus hybrid, av. height 38"; midseason. Blend: Light gold blended pink. Elmohr x Honeyflow.

PRAIRIE JEWEL. OY4. Sdlg. #50-271. (Sass, Henry E., Reg. 1953). Tall bearded, av. height 36"; midseason. Bicolor: Stds. Apricot (Wilson 609/2), with purple glow; Falls Dahlia Purple (Wilson 931/3), haft markings of apricot. Yellow Blend Sdlg. #48-353 x Sdlg. 46-209. Sdlg. 48-353 is 44-81: (Ola Kala x 40-166, yellow, from Dore x Matula) x Rainbow Room. Pollen parent, #46-209, is Flora Zenor x Hall Flamingo Pink Sdlg.

PRAIRIE MOON. Y1L. (Suiter, Mrs. Glen (Melvina), Reg. 1953). Tall bearded, av. height 40"; early to late. Cream self, beard same. Snow Flurry x Cloth of Gold.

PRETTY BABY. O4. (Hysell, Ruby M., Reg. 1953). Tall bearded, av. height 48"; midseason to late. Bicolor: Stds. mauve-buff; Falls rose-wine (light medium tone of red), brown haft with white lines, orange beard. Prince of Orange x Christabel.

PRIDE OF CREOLE. W2. (Duplechain, Mrs. W. E., Reg. 1953). A. *hexagona* (La.), av. height 45-48"; midseason. Plicata, white with blue markings (BV6, Fischer). Collected.

PRINCELY. Y1. (Long, B. R., Reg. 1953). Tall bearded, av. height 42"; midseason. yellow self, medium deep. Long Sdlg. x Yellow Edw. of Windsor Sdlg. (Morris).

PRINCESS ANNE. Y4. (Zurbrigg, Lloyd, Reg. 1953). Tall bearded, av. height 38"; midseason. Bicolor: Stds. medium yellow, Falls white, bordered bright yellow. Armor Bright x Cascade Splendor.

PROMISED LAND. R1. (Chowning, Frank E., Reg. 1953). A. *hexagona* (La.); av. height 24"; early. Dusty pink self, greenish-gold line half way down falls. Unknown.

PURPLE-HAVEN. RV1. #12-A. (Reynolds, Mrs. Leo F., Reg. 1953).

- Tall bearded, av. height 36"; midseason. Purple Self. Beard purple except in heart of flower. Vatican Purple x Carpenter 67/8.
- PURPLE WONDER. RV1D. (MacMillan, W. B., Reg. 1953). A. hexagona (La.); av. height 50"; midseason late. Dark red-violet self (M&P 56-12-A), gold line crest. Dante's Candle x chance pollination.
- PYRAMID GOLD. Y1. Sdlg. #53-6. (Savery, Don B., Reg. 1953). Tall bearded, av. height 38"; midseason. Rich, full yellow self; beard same. Ola Kala x Spun Gold.
- QUEEN'S LACE. W1. Sdlg. #52-28. (Muhlestein, Tell, Reg. 1953). Tall bearded, av. height 34"; midseason to late. White self, yellow center and beard. (Gold Ruffles x Chantilly) x Clara B.
- QUEEN SALOTE. O1. (Drewett, Anthony, Reg. 1953). Tall bearded, av. height 48"; midseason. Honey-toned orange self. Prairie Sunset x Golden Russet.
- QUEEN'S TREASURE. Y3. (Rees, Misses Clara and Ruth, Reg. 1953). Tall bearded, av. height 42"; midseason. Bitone: Stds. light yellow, Falls cream, edged light yellow. Snow Flurry x Muhlestein's 45-43.
- RADIANT RED. (Reg. by Mrs. Nesmith for H. F. Hall, 1952). Parentage is Hall R 71 x Hall Sdlg. B-23. Information unavailable earlier because of illness of originator.
- RAINBOW MIST. V5L. Sdlg. #5/V81. (Sevens, Mrs. Jean, Reg. 1953). Tall bearded, av. height 32"; early midseason. Blend, pale silvery orchid with gold suffusion. Paragon x Floral Dance.
- RARE PEARL. Y5. (Muhlestein, Tell, Introducer, Reg. 1953). Tall bearded, av. height 36"; early to midseason. Blend, pearly cream flushed violet. Elmohr x Mt. Washington.
- RASPBERRY ICE CREAM. RV1. (Muhlestein, Tell, Reg. 1953). Tall bearded, av. height 36"; midseason late. Raspberry pink self. (SQ 72 x 44-67, sister to Gold Ruffles) x Pink Formal.
- REBECCA BUTLER. RV3. (Conger, Sidney L., Reg. 1953). A. hexagona (La.), av. height 30"; midseason. Bitone: Stds. light red-violet (M&P 6-d-4, Claret Cup) edged Touquet, faint coral pink (M&P 4-B-8); Falls same, signal patch yellow to buff. Unknown.
- RED DANCER. R1. Sdlg. #50-57. (Barker, M. J., Reg. 1953). Tall bearded, av. height 38"; midseason to late. Medium red self. Red Waves x (Lapham I-10: Red Gleam x Copper Rose).
- RED GOLD. Y4. (Austin, Lloyd, Reg. 1953). Tall bearded, av. height 38"; midseason. Bicolor: Stds. bronzy old gold, Falls dark red. Naranja x Black and Gold.
- RE-ECHO. OR3. Sdlg. #B5202. (Barton, Mrs. Thelma G., Reg. 1953). Tall bearded, av. height 36"; midseason. Bitone: Stds. Venetian Pink (Wilson), Falls slightly lighter; beard tangerine. Pink Cameo x McKee Sdlg. of the SQ 71 series.

- REHOBETH. B1P. (DeForest, Fred, Reg. 1953). Tall bearded, av. height 36"; midseason. Pale blue self. Snow Flurry x Lake Shannon.
- REIGN OF GLORY. B3. (Marx, Walter, Reg. 1953). A. Japanese, double, av. height 40"; midseason. Bitone: Stds. silvery blue, Falls deeper blue. Mrs. J. A. Hayden x Nagao-zan.
- ROSE SURPRISE. R3. (Clarke, Mrs. C. C. (Hattie B.), Reg. 1953). *A. hexagona* (La.), av. height 30"; midseason. Bitone: Stds. Flush pink, rose stripe; Falls Rose. Yellow signal. Adelaide Bradford x Peggy MacMillan.
- ROSY VEIL. W2. Sdlg. #48-162. (Sass, Henry E., Reg. 1953). Tall bearded, av. height 36"; midseason. Plicata: white ground, Stds. lightly marked Cobalt Violet (Wilson) on lower part; Falls white lightly edged Cobalt Violet (Wilson 634), yellow beard. (Pink Plicata #44-6; (Minnie Colquitt x 10-38, yellow plic.) x (Pink Plicata 43-7: (Minnie Colquitt x Jake).
- ROYAL VELOUR. RV3. (Conger, Sidney L., Reg. 1953). *A. hexagona* (La.), av. height 30-36"; midseason. Bitone: Stds. deep red violet (M&P 40-10-L); Falls same to black purple (M&P 48-L-10). Roses and Wine x Peggy Mac.
- ROYAL MIDGET. BV1. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 12"; midseason to late intermediate. Blue violet self; Falls have velvet spot. Beard blue-violet. Gulf Stream x *pumila* violet.
- ROYAL RAIMENT. BV1. Sdlg. #53-1. (Flory, Wilmer B., Reg. 1953). Tall bearded, av. height 30"; early midseason. Blue purple self. Danube Wave x Chivalry.
- RUFFLED BROCADE. VB5. (Marx, Walter, Reg. 1953). A. Japanese, double, av. height 48"; midseason. Blend: Stds., light violet blue, Falls same blended with orchid and lavender shades. Margaret S. Hendrickson x Catherine Parry.
- RUFFLED PETTICOAT. VB1. (Reinhardt, Mrs. Robt. M. Reg. 1953). Tall bearded, av. height 36"; midseason. Light lavender blue self (classification, violet blue). Gallant Lady x Sdlg. #48-35.
- RUFFLED TAFFETA. RV1L. (Miess, Miss Elma, Reg. 1953). Tall bearded, av. height 42"; midseason. Light red-violet self (*Viola*, M&P 42-G-7). Sdlg. #423A: (Snow Flurry x Great Lakes) x Lake Tenaya.
- SAFARI. W2. Sdlg. #48-53-1. (Plough, Gordon W., Reg. 1953). Tall bearded, av. height 30"; midseason to late. Plicata: Stds. all-over brown on white background; Falls white brushed brown, white area at beard tip. Firecracker x Late Sunset.
- SAFFRON CHARM. Y5. (Benbow, Rev. D. E. and Mrs. Reg. 1953). Eupogoregelia hybrid, av. height 28"; early. Blend of saffron, gray and lavender, *I stolonifera* x *pogon* sdlg.

- SANDYSON. W2. (White, Mrs. David K. (Alice J.), Reg. 1953). Tall bearded, table, av. height 19"; midseason to late. Stds. creamy white sanded lavender; Falls creamy white dotted and lined lavender. (Seedling: Warbler x King Karl) x unknown.
- SAN JUAN GLORY. Y5. (Brown, Opal L., Reg. 1953). Tall bearded, av. height 36"; midseason. Blend, buckskin with lavender tint over all. Lavender blaze in center of falls. Pretty Quadroon x Chantilly.
- SANTA ANITA. RV3, (Lenz, Lee, W., Reg. 1953). A. *californian*, av. height 7"; early. Red-violet Bitone: Stds. Petunia Purple (Wilson 32/1), Falls Orchid Purple (Wilson 31/1), veined darker; signal patch yellow striped and dotted with Orchid Purple. Sdlg. #6116 x unknown.
- SAPPHIRE WINGS. B1. (Stoll, Mrs. Wm. A., Reg. 1953). A. *siberica*, av. height 30"; early midseason. Sapphire blue self (M&P 41-G-12). Kingfisher x Gatineau.
- SASSAFRAS LANE. Y5. (Fly, Mrs. J. Byron (Letha A.), Reg. 1953). Tall bearded, av. height 48"; midseason. Blend, yellow and rose tones, gold undertone; light orange beard. Remembrance x Brilliant Amber.
- SASS SOUVENIR. Y3. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Tall bearded, av. height 31"; midseason. Yellow Bitone: Stds. Primrose (Wilson 601/2), Falls same with lighter yellow (601/3) at center; beard darker (601/1). Elsa Sass x Moon Ray. Originator, Hans P. Sass; stock given to Mrs. Whiting, introducer.
- SASSY SALLY. R3. (Burns, Mrs. Edythe, Reg. 1953). Tall bearded, av. height 40"; midseason. Bitone: Stds. pink, Falls raspberry rose, tangerine beard. Overture x Flora Zenor.
- SCARLET TIGER. Y4. (Austin, Lloyd, Reg. 1953). Tall bearded, av. height 25"; early to midseason. Bicolor: Stds. light yellow, flushed red; Falls red. Tiger Tiger selfed.
- SEA BARON. B1M. (Howe, O. R., Jr., Reg. 1953). Tall bearded, av. height 38"; midseason. Self, of light medium blue (M&P 34-L-8); blue-white beard. Snow Flurry x (White Goddess x Matterhorn).
- SEA BELLE. W4. (Wheeler, W. A., Reg. 1953). Tall bearded, av. height 36"; midseason. Bicolor: Stds. white, flushed canary; Falls white, heavily marked gold. Paradise Pink x (Southern Snow x Cherie).
- SEABIRD. VB1M. Sdlg. #B5209. (Barton, Mrs. Thelma G., Reg. 1953). Tall bearded, av. height 36"; midseason. Self, of medium violet-blue (Butterfly Blue, Wilson). Blue Shimmer x Distance.
- SEA MAID. V1P. Sdlg. #53-3. (Robinson, Mrs. Geo. D. (Fern), Reg. 1953). Tall bearded, av. height 36"; midseason. Self of palest

- violet (Mauvette, Wilson 537/3); beard, style arms, midribs and crests same. Snow Flurry x Spanish Peaks.
- SEVENTH HEAVEN. OR1. Sdlg. #7-52. (Lapham, E. G., Reg. 1953). Tall bearded, av. height 30"; midseason. Self, of pure Shell Pink (Wilson 516/3); pink beard, smooth haft. (Sdlg. E-2: Loomis Seashell Sdlg. x Forerunner) x Paradise Pink.
- SHEER DELIGHT. VR3. (Chowning, Frank E., Reg. 1953). *Apogon hexagona* (La.), av. height 36"; midseason. Bitone: Stds. pale levander pink; Falls same with gold line in center surrounded by deep lavender flush. Lockett's Luck x Accolade.
- SHEIK OF ARABY. R3. (Ulrich, Mrs. Bernard, Reg. 1953). Tall bearded, av. height 36"; midseason. Bitone: Stds. red-brown, Falls red. Orange beard. Susitna Sunset x Brown Thrasher.
- SHERPA. Y3. (Beach, George R., Reg. 1953). Tall bearded, av. height 36"; late midseason. Bitone, yellow-toned: Stds. "Oyster white", stitched golden-bay (M&P 4-D-12). Falls same. Zantha x Radiation.
- SHILOH. B4. Sdlg. #242-48. (Wills, Jesse E., Reg. 1953). Tall bearded, av. height 35"; late. Bicolor: Stds. medium blue, Falls dark purple. Yellow beard, tipped white. Vatican Purple x Wabash.
- SHORT SONG. VB1. (Peterson, Les., Reg. 1953). *Eupogocyclus* hybrid, av. height 24-26"; midseason to late. Self, of light lavender-blue. Beard pale yellow, tipped white. Branching Onco-type, like William Mohr. Ormohr x (Depute Nomblot x Happy Days).
- SIDI PASHA. Y5. Sdlg. #45B52. (White, Clarence G., Reg. 1953). *Eupogocyclus* hybrid, av. height 30"; midseason. Blend: Stds. Mustard yellow, sulphine penciling, splashed pansy purple; Falls Mustard yellow splashed Burnt Lake and Liver Brown. Beard yellow. Unknown.
- SILVER BUTTERFLY. B1L. Sdlg. #1/X517. (Stevens, Mrs. Jean, Reg. 1953). Tall bearded, av. height 34"; early midseason. Very pale silver blue self. ((Magnolia x (Lagos x (Gudrun x (Lady Morvyth x Rangatira)) x Summit.
- SILVER HAWK. Y1. Sdlg. #50-62. (Smith, Kenneth D., Reg. 1953). Tall bearded, av. height 42"; midseason. Cream self, pale chartreuse-yellow overlay, green midrib, light yellow beard. Spanish Peaks x Golden Hawk.
- SILVER LACE. V3. (Dennis, Paul, Reg. 1953). Tall bearded, av. height 36"; midseason to late. Bitone: Stds. orchid, faint border of transparent silver, finely laced; Falls orchid, veined purple aster (M&P), $\frac{1}{4}$ " border of same silver veined purple aster. Beard deep chrome to gold at tip. Morocco Rose x Prairie Sunset.
- SILVER PHEASANT. W1. Sdlg. #52-98. (Ellyson, Craig, D., Reg. 1953). Tall bearded, av. height 38"; midseason to late. White self,

- slight blue cast at heart; gold beard. Sharkskin x Spanish Peaks.
- SIMONNE MANSON. Y1. (Moore, Mrs. Jas. D. (Orline), Reg. 1953). Tall bearded, av. height 30"; midseason. Cream self, yellow beard, some yellow at haft. Buckskin x Snoqualmie.
- SKY AND WATER. V3. (Payne, W. A., Reg. 1953). Apogon Japanese, av. height 46"; early midseason. 6 petal. Violet Bitone, from Light Violet to Pallid Violet (Ridgway B2). (Sdlg. #101:Ganymede x Osamaru-miyo) x (Sdlg. #127:(Ai-fukurin x Kongo-san) x Ai-fukurin)).
- SLICK CHICK. W1. Sdlg. #LM-4. (Linse, Jack G., Reg. 1953). Eupogocyclos hybrid, av. height 36"; midseason. Pure white self, greenish midrib, white beard, green buds, Onco form. Has fertile pollen. Lady Mohr x Snoqualmie.
- SMALL WONDER. VB1. (Douglas, Geddes, Reg. 1953). Intermediate bearded, av. height 15"; midseason intermediate. Self, of medium French Blue; beard yellow, tipped white. Helen McGregor x *pumila* blue.
- SNOW BALLET. W1. Sdlg. #50-42. (Palmer, Mrs. Ray E. (Dorothy S.); Reg. 1953). Tall bearded, av. height 38"; midseason to late. Self, of blue-white; white beard shading to lemon yellow Snow Flurry x (Gloriole x Great Lakes).
- SNOW GOOSE. W1. (Levingston, Wm. E., Reg. 1953). *A. hexagona* (La.), av. height 40"; midseason. White self, yellow signal. *giganti-caerulea* type. Collected 1939.
- SNOW MAGIC. W1. Sdlg. #53-4. (Robinson, Mrs. Geo. D. (Fern), Reg. 1953). Tall bearded, av. height 36"; midseason. Pure white self; beard, styles, midribs, and crests white. Snow Flurry x Spanish Peaks.
- SNOWY HERON. W1. (Schreiner, Bernard F., Reg. 1953). Tall bearded, av. height 40"; late. Pure white self. (Snowking x Missouri) x (Snow Carnival x Winter Carnival).
- SOMBRE CAL. V3. Sdlg. #MCTTS12. (Voris, Chas. Wm., Reg. 1953). Tall bearded, av. height 36"; midseason to late. Violet-toned Bitone: Stds. slate blue, gray edged; Falls slate blue, gray border; haft brown-white, lemon veined. Tip Top x Minnie Colquitt.
- SONSEEAHRAY. Y2. (Grapes, Hazel, Reg. 1953). Tall bearded, av. height 36"; early midseason. Plicata: Stds. and Falls deep cream, brushed and marked coppery brown. Heavy coppery brown blotch at shoulder of falls. Two plicata Sdls.
- SORAYA. RV5. (Eckels, Richard P., Selector, Reg. 1953). Tall bearded, av. height 40"; midseason. Blend: Stds. Vinaceous Lilac (Ridgw.), Falls Avellaneous blended with Antique Brown, blazed Eupatorium Purple. Cadmium yellow beard. Hills of Gold x Easter Bonnet. Sdlg. #48-27.

- SO SWEET. B1P. Sdlg. #6-15-6. (Lafrenz, Ernest, Introducer, "Mitchell-Lafrenz" Reg. 1953). Tall bearded, av. height 40"; early. Palest porcelain blue self (M&P) Snow Flurry x Chivalry.
- SPANISH DANCER. Y2. Sdlg. #53-5. (Robinson, Mrs. Geo. D. (Fern), Reg. 1953). Tall bearded, av. height 34"; midseason. Plicata: Stds. smooth light yellow, heavily but clearly marked red; Falls same smooth light yellow, heavily stitched border of red. Sdlg. J-4: (Red Bonnet x Tiffany) x Solid Mahogany.
- SPANISH MAIN. YO1. Sdlg. #28-49. (Wills, Jesse E., Reg. 1953). Tall bearded, av. height 36"; midseason. Self, of yellow-orange (Spanish orange, Wilson); gold beard. Faint overlay of rose; garden effect orange-brown self. (Prairie Sunset x Lancaster) x Bryce Canyon.
- SPARKLING EYES. W4. Sdlg. #K-517. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 7"; early. Bicolor: Stds. white, Falls blue-violet bordered white. White beard. ((San Francisco x *pumila*) x (*chamaeiris*)) x (Cook 1546 x Sulina). (Cook 1546 is from ((*Aurea* x *pumila*) x *pumila*).
- SPICE. O5. (Craig, Tom, Reg. 1953). Tall bearded, av. height 40"; midseason and reblooms. Blend, orange-toned: Stds. blended Titian Gold and Spice; Falls slightly more intense, orchid irridescence at deep chrome beard. Molten x Golden Perch.
- SPRING CLOVER. W1. (Murdock, Eleanor L., Reg. 1953). Tall bearded, av. height 34"; midseason. All-white self. Chivalry Sdlg. x Great Lakes.
- SPRING CONTRAST. B3M. Sdlg. #1-50. (Greenlee, Mrs. R. E., Reg. 1953). Intermediate bearded, av. height 19"; midseason intermediate. Bitone: Stds. medium blue, Falls slightly deeper, olive haft, orange-yellow beard. Mauve Mist x Tall tetraploid bearded, unknown.
- SPRING FLIRT. V5. Sdlg. #L52-5. (Lyon, David Wm., Introducer, Reg. 1953). A California, (*innominata* hybrid), av. height 6"; April-May. Blend, lavenders and white. Unknown.
- STARBEAU. B1M. (McKee, Wm. J., Reg. 1953). Tall bearded, av. height 38"; midseason. Medium blue self, no markings. Ponder x ((Helen McGregor x Blue Angel Wings) x Ponder). Name transferred from earlier seedling, not introduced.
- STARFIRE. Y3. Sdlg. #32-48. (Wills, Jesse, Reg. 1953). Tall bearded, av. height 38"; early midseason. Bitone: Stds. and Falls golden yellow, with deeper gold edge and haft, small white blaze in center of fall. Star Shine x Ola Kala.
- STARSPUN. Y1P. (Suiter, Mrs. Glen (Melvina), Reg. 1953). Tall bearded, av. height 40"; early to midseason. Chartreuse cream self, beard same. (Snow Flurry x Chosen) x Fort Knox.

- STRUTTING CANARY. Y1. (MacMillan, W. B., Reg. 1953). *Apogon hexagona* (La.), av. height 30"; midseason to late. Canary yellow self. Chance seedling.
- SUGAR AND CREAM. W4. (Shinkle, Mrs. Herbert (Berniece), Reg. 1953). Intermediate bearded, av. height 8"; early. Bicolor: Stds. clear white, Falls golden cream. Yellow pumila x Peewee (table iris).
- SUGARPLUM. OR1. Sdlg. #89K-A. (Corey, Mrs. Preston (Miriam E.), Reg. 1953). Tall bearded, av. height 36-38"; midseason. Pink self, yellow beard, soft yellow haft. Lacy edges. Chantilly x 50H-L: (Daybreak x Midwest Gem).
- SULTAN'S ARMOR. O1. (Zurbrigg, Lloyd, Selector, Reg. 1953). Tall bearded, av. height 24"; midseason. Brown self (deeper brown at center of haft, but self effect). Armor Bright x Sultan's Robe.
- SULTRY HOUR. V3. (Eckels, Richard P., Selector, Reg. 1953). Tall bearded, av. height 44"; midseason. Bitone: Stds. Vinaceous Slate, Falls Bradley's Violet (Ridgway); style crest deep Heliotrope Gray. Teal x Three Cheers.
- SUN BEAU. Y1D. (Brownell, M. J., Reg. 1953). Tall bearded, av. height 40"; midseason. Deep orange yellow self, orange beard. Sunsation x Golden Eagle.
- SUN DOG. Y3. Sdlg. #53-16. (Ellyson, Craig D., Reg. 1953). Tall bearded, av. height 39"; midseason late. Bitone: Stds. medium yellow, Falls darker, thick yellow beard. Carabella x Sharkskin.
- SUNLIT FIELDS. O3. (Chowning, Frank E., Reg. 1953). *Apogon hexagona* (La.), av. height 30"; midseason. Bitone: Stds. pale buff, Falls rosy buff, deepening to tan gold at base. Louise Austin x Abbeville Red.
- SUNLIT PEAK. W4. Sdlg. #1/V174. (Stevens, Mrs. Jean, Reg. 1953). Tall bearded, av. height 36"; midseason late. Bicolor: Stds. white, Falls rich Yellow. (Wabash x ((Lagos x (Lady Morvyth x Rangatira)) x (Fair Elaine x ((Snow King x Gudrun) x (Lady Morvyth x Rangatira))))).
- SUNSET FLAME. O4. (Austin, Lloyd, Reg. 1953). Tall bearded, av. height 30"; late midseason. Bicolor: Stds. rich bronzy orange; Falls deep orange flushed with red, intricate yellow veining at haft. Orange Flame x Sunset Serenade.
- SUNSET PINK. R3. (Murray, G. H., Reg. 1953). Tall bearded, av. height 44"; midseason. Bitone: Stds. rose pink, Falls two shades deeper; light tangerine beard. Sdlg. 81-48: (Spindrift x Inspiration) x Twilight Sky.
- SUNSTONE. R01. Sdlg. #468. (Whiting, Mrs. C. G. (Agnes), Reg. 1953). Corrects parentage in accordance with new information. Seed parent originally registered as Break of Dawn (Sass) never intro-

duced, declared obsolete by originator, and returned to seedling number. Parentage is J. Sass Seedling 40-365 x Rocket.

SWAN BALLET. W1. Sdlg. #51-50A. (Muhlestein, Tell, Reg. 1953). Tall bearded, av. height 40"; midseason to late. White self, white beard. (Spanish Peaks x Faught 19H: (24F3: Purissima x Santa Barbara)) x (Hall Brown Seedling)) x Great Lakes.

SWEET AFTON. B1L. Sdlg. L50-58. (Lowry, Mrs. F. P. (Edith), Reg. 1953). Tall bearded, av. height 36"; midseason. Very light blue self. And Thou x (Yellow Diamond x On Guard).

SWEET WHISPER. RV1L. (Brownell, M. J., Reg. 1953). Tall bearded, av. height 39"; midseason. Self, light Dusty Rose Pink. (Seedling: (China Maid x Yellow Sdlg.) x (Miobelle x Ming Yellow)) x (Seedling: (Yellow Sdlg. x Golden Treasure)).

SWIRL. W2. (Gorham, R. B., Reg. 1953). Tall bearded, av. height 36"; early midseason. Plicata: white with wine-purple markings. Blue Shimmer x Minnie Colquitt.

TAHANTO. RV1. (Barton, Mrs. Thelma G., Reg. 1953). Tall bearded, av. height 36"; midseason. Red-violet self (Fischer #3. Tiffany x Orange Gem. Seedling #B4956.

TAHOLA. Y2. (Gibson, J. M., Reg. 1953). Tall bearded, av. height 36"; midseason. Plicata: cream ground stippled burnt umber. Sdlg. #145A x Firecracker.

TANGO PINK. R1L. (Dormon, Miss Caroline, Reg. 1953). Apogon *hexagona* (La.), av. height 36"; midseason. Pink self (Tango, M&P), few darker veins. Forsythia x Early Morn.

TATAI PASHA. Y5. Sdlg. #14-B-53. (White, Clarence G., Reg. 1953). Eupogocylus hybrid; av. height 30"; midseason. Blend: Stds. Primuline yellow, Falls stippled and penciled Hays Russet shading to primuline yellow, signal patch liver brown. Unknown.

TEMPLE MAIDEN. V1. (Marx, Walter, Reg. 1953). Apogon Japanese, av. height 40"; midseason. Lavender self. Mrs. J. A. Hayden x Iso-no-kamone.

TEMPTATION. Y5. (Tompkins, C. W., Reg. 1953). Tall bearded, av. height 40"; midseason. Blend, golden chamois overlaid lavender and coral orange. Stag at Eve x (Honeyflow x Chamois).

TERRI KAY. R1. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded, av. height 36"; midseason. Rose self, raspberry tinted. (Pink Tower x Dream Castle) x Hit Parade.

THREE SIGNALS. VB1D. (Marx, Walter, Reg. 1953). Tall bearded, av. height 42"; midseason. Self of deep Wistaria Blue (M&P). Prominent white blaze at haft. Sky Chief x Los Angeles.

TIMMIE'S MEMORY. O1D. (Hamacher, Mrs. Lavinea, Reg. 1953). Tall bearded, av. height 36"; early to midseason. Self, copper brown;

- beard brown, no haft veinings. Bryce Canyon x Tobacco Road.
- TINY TIM. O5. Sdlg. #L52-7. (Lyon, David M., Introducer, Reg. 1953). Apogon California (*innominata* hybrid), av. height 6"; April-May. Brown blend. Unknown.
- TITINA. Y5. (Gersdorff, Chas. E. F., Reg. 1953). Tall bearded, av. height 34"; late midseason. Blend: Stds. chamois, pinkish flush to orange at base; Falls light rosy lavender to pinkish buff edges (Ridgway). Beard orange. Lady Dimple x ((Sass 30-17) x (Geo. J. Tribolot x Bruno)).
- TOAST AN' HONEY. Y3. (Kleinsorge, R. E., Reg. 1953). Tall bearded, av. height 33"; midseason. Bitone: Stds. Golden Cinnamon Brown, brown edging; Falls gold, edged deep border same as Stds. Beard deep golden brown. Lilac Sdlg. #368B x Opal Cloud.
- TOPAZ. Y5. Sdlg. #B-51. (Waters, Don, Reg. 1953). Tall bearded, av. height 38"; midseason. Blend: Stds. brilliant brown, flushed henna, yellow shining through. Falls brilliant brown, yellow shining through. Orangeman x Casa Morena.
- TOP BRASS. Y1. (Murray, G. H., Reg. 1953). Tall bearded, av. height 42"; early midseason. Self, of burnished brass, Falls same with half-inch white glaze halfway down. Beard yellow. Appointee x Green Pastures.
- TOP FLIGHT. YO1. (Hall, David F., Reg. 1953). Tall bearded, av. height 36"; midseason. Self, deep golden apricot. Sdlg. #46-45 x Sdlg. #46-31. Earlier registration by same name declared obsolete and name released by Mrs. H. L. Grant.
- TOUCHDOWN. O1. (Sapp, Mrs. J. A., Reg. 1953). Tall bearded, av. height 38"; midseason. Brown self. (Mexico x Tobacco Road) x (Sunset Blaze x Casa Morena).
- TRAILMASTER. Y4. (Brownell, M. J., Reg. 1953). Tall bearded, av. height 45"; midseason. Bicolor: Stds. yellow, Falls brown. Yellow beard. Far Flung x Ella Callis.
- TRIM. R1. Sdlg. #5231. (McKee, Wm. J., Reg. 1953). Tall bearded, av. height 38"; midseason. Red self. (Pequot x (Lights On x Moontide) x (Redwyne x Moontide)).
- TRUTH. W1. Sdlg. #51-65. (Fischer, Hubert A., Reg. 1953). Tall bearded, av. height 40"; midseason. White self. Chivalry x Azure Skies.
- TWIN PEAKS. R3. (Gorham, R. B., Reg. 1953). Tall bearded, av. height 40"; midseason. Bitone: Stds. reddish brown, Falls mahogany red. Solid Mahogany x Casa Morena.
- ULTIMA THULE. Y5. (Lincoln, Jasper, Introducer, Reg. 1953). Eupogocylus hybrid, av. height 36"; midseason. Blend: yellow-ground heavily flushed pink, gold infusion at hafts; small light

area below thick orange beard. Bloom large, round, Mohr-type. Yellow-blend Mohr Sdlg. x red-beard seedling.

UTAH CREAM. Y1L. Sdlg. #49-30A. (Muhlestein, Tell, Reg. 1953). Tall bearded, av. height 36"; midseason to late. Cream self. Gold Ruffles x Sdlg. which is sister to Cream Gold.

VECTA. W4. (Fothergill, H. Senior, Reg. 1953). *Apogon californica*, av. height 9"; early. Bicolor: Stds. white, Falls same lined rose-violet. *I. innominata* x *douglasiana*.

VEDA BRICE. O1L. (Fothergill, H. Senior, Reg. 1953). Tall bearded, av. height 42"; midseason. Golden-brown self. Prairie Sunset x Hi-Time. Bronze Medal BIS; Wisley Trials.

VELVET QUEEN. B1. (Duplechain, Mrs. W. E., Reg. 1953). *A. hexagona* (La.); av. height 46"; midseason. Blue self (Fischer V2), shading lighter at edges. Signal patch green-yellow line. Hybrid, parentage unknown.

VERI-GAY. Y4. Sdlg. #K-513. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 5"; early dwarf. Bicolor: Stds. bright deep yellow; Falls reddish with gold border. Orange beard. ((Yellow chamaeiris x Sass Dark Ruby) x Cook 1546) x ((San Francisco x pumila) x chamaeiris). Cook 1546 is ((Azurea x pumila) x pumila).

VICTORIAN BELLE. R5. (Wheeler, W. A., Reg. 1953). Tall bearded, av. height 40"; midseason. Blend of rose and lilac, no haft markings. Illinois x (Orangeman x Hall's #4207).

VIRGINIA. R1L. (Dormon, Miss Caroline, Reg. 1953). *Apogon hexagona* (La.), av. height 24"; midseason. Self of soft pink. (Dan Debaillon x big magenta Sdlg.) x Rose of Abbeville.

VIRGIN'S BLUSH. Y1. Sdlg. #52-02. (Cooper, Miss Annie A., Reg. 1953). Tall bearded, av. height 18"; midseason. Cream self, delicately flushed. Tally Ho x Melody Lane.

WALMAC YELLOW. Y1. (Stoney, Marvin G., Reg. 1953). Tall bearded, av. height 39"; midseason. Bright deep yellow self. Yellow Sdlg.: (Jean Cayeux x Yellow Sdlg.) x Yellow Seedling: (Zantha x Jean Cayeux).

WANDANITA. W1. (Shinkle, Mrs. Herbert (Berniece), Reg. 1953). Tall bearded, av. height 40"; midseason, White self, faint orchid tone; violet area at tip of beard. Snow Flurry x Violet Crown.

WAR PAINT. R5. Sdlg. #52-1. (Palmer, Mrs. Ray C. (Dorothy S.) Reg. 1953). Tall bearded, av. height 38"; midseason to late. Blend, red-toned: Stds. Toast (M&P), Falls Dark Toast, distinctly brushed red. Yellow beard. Goldbeater x (Gypsy x Gypsy). Name released by former registrant, Carl Carpenter.

WATER LILY. Y5. (Kleinsorge, R. E., Reg. 1953). Tall bearded, av. height 34"; midseason. Blend: Stds. light tan, Falls light tan, violet

- undertone, edged same as Stds. Haft and beard gold. Chamois x Cascade Splendor.
- WATERMELON.** R5L. Sdlg. #491. (Waters, Don, Reg. 1953). Tall bearded, av. height 32"; midseason. Pink blend, color of watermelon 2/3 ripe. Dreamcastle x SQ 72.
- WEATHER BIRD.** Y2. (Muhlestein, Tell, Reg. 1953). Tall bearded, av. height 38"; early midseason. Plicata: Stds. cream, faintly flushed lavender, Falls cream edged lavender. Cool Lemonade x Aldura.
- WELKIN.** B1. (Soper, Miss Eva., Reg. 1953). Tall bearded, av. height 36"; midseason. Self, palest Cambridge blue, blue beard. A St. Osyth Sdlg. Wisley Trials 1953.
- WHISTLE BAIT.** RV4. (MacMillan, W. B., Reg. 1953). Apogon hexagona (La.), av. height 30"; late. Bicolor: Stds. medium red-violet (Perilla Purple, M&P 47-J-3); Falls Aureolin Yellow (M&P 10-L-2). Reverse bicolor. Bayou Sunset x Unknown.
- WHITE ANGEL.** W1. Sdlg. #L51-12. (Lyon, David Wm., Introducer, Reg. 1953). Apogon *california* (*douglasiana* hybr.); av. height 12-15"; midseason to late. White self. Unknown.
- WHITE BONNET.** W1. (Stoll, Mrs. Wm. A. (Dorothy), Reg. 1953). Apogon *siberica*; av. height 26"; early midseason. White self, few yellow haft markings. Gatineau x White Dove.
- WHITE DELIGHT.** W1. (Hysell, Ruby M., Reg. 1953). Tall bearded, av. height 48"; midseason to late. White self, some chartreuse at haft; matching beard. Chosen x Pale Moonlight.
- WHITE FOAM.** W1. (Knowlton, Harold W., Reg. 1953). Tall bearded, av. height 36"; midseason. White self, all-white. Snow Flurry x Cloudecastle.
- WHITONE.** W4. Sdlg. #J-538. (Welch, Walter, Reg. 1953). Dwarf bearded, av. height 8½"; early. Bicolor: Stds. pure white, Falls pale ivory. Beard white. Elegance x G-522: (Fiancee x Fairy) x Self)).
- WIDE WORLD.** VB4. Sdlg. #Imbri-151. (Cook, Paul H., Reg. 1953). Tall bearded, av. height 38"; midseason. Reverse bicolor: Stds. Pale Wistaria Blue (Ridgway), paler above, deeper below; Falls white. Beard white. Blue Sdlg. #16048 x Sdlg. #17048: (blue Sdlg. x ((pink sdlg. x *imbricata*) x blue sdlg.)).
- WILLIAM DREWETT.** O4. (Drewett, Anthony W., Reg. 1953). Tall bearded, av. height 36"; midseason. Bicolor: Stds. burnt orange copper; Falls henna tan, fuchsia blaze. (Del rosa x Orange Glow) x (Orange Glow x Melodist).
- WILLIAM HART.** RV3. (Patrick, Mrs. Harry, Reg. 1953). Tall bearded, av. height 38"; late. Purple self. (Sable x Indian Hills) x Frieda Mohr.
- WINTER FLAME.** R3. (Austin, Lloyd, Reg. 1953). Tall bearded, av.

height 32"; early midseason and winter. Bitone: Stds. light wine red, Falls velvety crimson, light buff edge, light violet spot. December Royalty selfed.

WINTERSET. W1. (Hickenlooper, J. C., Reg. 1953). Tall bearded, av. height 36"; early midseason. White self, blue cast at throat. Snow Flurry x Billowy Sea.

WISTERIA LADY. VB1. (Reinhardt, Mrs. Robt. M., Reg. 1953). Tall bearded, av. height 38"; midseason. Wistaria (violet-blue) self, flushed yellow at haft. Midwest Gem x Great Lakes.

WITCH DOCTOR. V5. Sdlg. #47-6-5. (Plough, Gordon W., Reg. 1953). Eupogocyclus hybrid, av. height 28"; early to late. Blend, lavender-gray. W-1: Cream tall bearded seedling of unknown parentage x Capitola.

WM. P. AYLETT. Y2. (Aylett, W. P. Reg. 1953). Tall bearded, av. height 34"; midseason. Plicata: Stds. and Falls cream, edged magenta, overlaid old gold. Orange beard. Batlow Beauty x Firecracker.

WONDERBAR. Y1L. (Schreiner, Robt., Reg. 1953). Tall bearded, av. height 40"; midseason. Cream yellow self. Desert Song x Bellerive.

WOODMONT PLUME. W2. Sdlg. #4-55. (Lafrenz, Ernest, Introducer, Reg. "Mitchell-Lafrenz" 1953). Tall bearded, av. height 37"; early to midseason. Fancy plicata: white-ground heavily stippled red-violet. Mitchell Sdlg. x Salbach Sdlg.

YACHT CLUB. W1. (Sapp, Mrs. J. A. (Elizabeth), Reg. 1953). Tall bearded, av. height 45"; midseason. White self, gold at haft. Illinois x (Katy x Sun Shadow).

YANKEE TRADER. B3. (Wheeler, W. A., Reg. 1953). Apogon *siberica*; av. height 20"; midseason. Bicolor: Stds. medium blue, Falls same, heavily marked white. Snow Queen x unknown.

YELLOW SUNSET. R1M. (Davis, Claude W., Reg. 1953). Apogon *hexagona* (La.), av. height 28"; midseason. Self, of Rubient Red (M&P 55-L-8), veined darker. Crest marked with 5 long radiating golden-rod yellow lines. Bayou Sunset x Abbeville Yellow.

YLEM. R1. Sdlg. #A-18. (Lapham, E. G., Reg. 1953). Tall bearded, av. height 36"; late. Red self (Mascara, M&P 7-L-8); bright yellow beard. Smooth haft. Relentless x Pacemaker.

YUCCA. Y4. Sdlg. #B45-6. (Babson, Sanford L., Reg. 1953). Tall bearded, av. height 34-36"; midseason. Stds. and Falls cream, white patch in center of falls. Snow Flurry x Bali Belle.

ZULU WARRIOR. Y2. (Craig, Tom, Reg. 1953). Tall bearded, av. height 38"; reblooms. Plicata: Stds. warm creamy base stippled rosy; Falls amber yellow; dense wineberry band. Joseph's Mantle x Burgundy Splash.

Corrections to Earlier Registrations

AMBER LACE (Valette, 1952) and SWEET GIRL GRADUATE (Valette, 1952) parentage is Chantilly x Muhlestein 47:72D:((Gold Ruffles x (Alice Harding x Type Dore)), not 42:72D or 48:72D, as given.

ORANGE CREAMO (Muhlestein, 1951). Seedling # is #51-53, not 51-53C, as originally given.

PINK CONFECTION (Muhlestein, 1951). Corrects parentage. Tall bearded, av. height 38"; midseason. True pink self, deep pink beard. (Salmon Shell x Hall 44-09, sister to Hit Parade) x (Muhlestein 49-11, sister to Pink Fulfillment).

PONDER. B1L. (McKee, W. J., Reg. 1950). Tall bearded, av. height 38"; early midseason. Light blue self. (Helen McGregor x Blue Angelwings) x Helen McGregor. Correction of parentage given in 1950, but omitted in error from 1950 registration report and records.

OFFICIAL LIST OF ACCREDITED JUDGES, AIS, 1954

Region 1

MASSACHUSETTS, MAINE, CONNECTICUT, NEW HAMPSHIRE, VERMONT, RHODE ISLAND

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M. J. Barker, 458 California St., Newtonville, Mass.

Mrs. John A. Bartholomew, 35 Pine Grove St., Milton 86, Mass.

Mrs. Thelma G. Barton, 15 Minot St., Gardner, Mass.

Charles U. Bear, Caspian Lake, Greensboro, Vt..

A. A. Benoit, 5 Congress St., Worcester, Mass.

Dr. G. P. Brown, Broad St., Barre, Mass.

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Dr. Howard F. Dunham; River Ridge, Hanover, N. H.

Miss Gladys Durkee, 57 Holden St., Worcester, Mass.

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W. A. Wheeler, 832 Concord St., Framingham, Mass.

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H. C. Porreca, Maple St., West Henrietta, N. Y.
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James C. Stevens, Greenville, N. Y.
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Region 3
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John C. Lyster, 120 W. Providence Rd., Clifton Heights, Penna.
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Earl W. Weidner, 1405 N. 5th St., Reading, Penna.

Region 4

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Mrs. F. Allen Brown, Western Hills, Route 4, Box 167, Roanoke, Va.
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Mrs. Maslin Davis, 606 12th St., S. W. Roanoke, Va.
Mrs. William Elwang, 26 Westlock Lane, Richmond, Va.
Mrs. C. A. Herbert, 2132 Laburnum Ave., S.W. Roanoke, Va.
E. C. Howell, 605 Washington Ave., Vinton, Va.
James Mann Jr., North Shore Point, Norfolk 5, Va.
Louis R. McDonald, 516 Victoria Ave., Lynchburg, Va.
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Edward E. Odom, 3131 N. Vermont St., Arlington, Va.
Mrs. Dorsey S. Overstreet, 213 Meadow St., Vinton, Va.
Mrs. Julian Preston, 1815 Greenwood Rd., Roanoke, Va.
Mrs. Charles Roberts, 226 Forrest Ave., Norfolk 8, Va.
Mrs. George C. Steedman, 2512 Oregon Ave., Roanoke 15, Va.
Mrs. A. W. Stellar, 100 Mahood Ave., Princeton, W. Va.
Howard R. Watkins, 4709 Cumberland Ave., Chevy Chase, Md.

Region 5

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Gabriel Cannon, Otis Blvd., Spartansburg, S. C.
Mrs. Jack Catos, 561 Marjory Pl., Macon, Ga.
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Mrs. F. W. Childs, Jenkinsburg, Ga.
Mrs. M. L. Church, 1626 Queen's Rd. West, Charlotte, N. C.
Mrs. Drew Ferguson, West Point, Ga.
Harvey Hobson, 27-A Martin St., Clemson, S. C.
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W. H. McNairy, 1001 Church St., Laurinburg, N. C.
C. C. O'Brien, 1216 Bellevue St., Greensboro, N. C.
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E. F. Pearce, 339 Beverly Rd. N.E., Atlanta, Ga.
M. Boydston Satterfield, 2607 Forrest Way, N.E., Atlanta, Ga.
Mrs. T. E. Tolleson, 441 Longhorn St. S.W., Atlanta, Ga.
Robert B. Wynne, 1411 Jackson St., Raleigh, N. C.

Region 6

MICHIGAN

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Mrs. Harry L. Armiger, 26368 York Rd., Huntington Woods, Mich.
Bennett S. Azer, Mio, Mich.
Mrs. Carl R. Bacon, Route 6 Box 462, Kalamazoo 66, Mich.
Jack H. Bloese, Bedford Gardens, Battle Creek, Mich.
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Mrs. L. D. Englerth, 4652 S. Division Ave., Grand Rapids, Mich.
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Mrs. A. H. Schuman, 22219 Telegraph Rd., Detroit 19, Mich.
Ernest L. Shantz, Fairview Creamery, Fairview, Mich.

A. W. Steward, 9386 Littlefield, Detroit 28, Mich.
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Franklin S. Sullivan, 31805 Bond Blvd., Farmington, Mich.
William S. Thomas, 10014 La Salle, Huntington Woods, Mich.

OHIO

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Miss Olive M. Bowman, 201 S. Perry St., Woodville, Ohio
Edward H. Bretschneider, 1260 Cambridge Blvd., Columbus 12, Ohio
Miss Grace Innis, 1977 Cleveland Ave., Columbus 6, Ohio
Mrs. J. E. McClintock, 5541 Fitch Rd., North Olmsted, Ohio
Robert H. McCormick, 1996 Chatfield Rd., Columbus 12, Ohio
F. C. Murphrey, 156 E. State St., Athens, Ohio
Mrs. C. W. Naas, Route 4, Celina, Ohio
Mrs. Herbert S. Shinkle, R.F.D. 1 Box 165, Clayton, Ohio
Mrs. Paul R. Stephan, 2104 Yorkshire Rd., Columbus 8, Ohio
D. Paul Wickersham, P.O. Box 12, Urbana, Ohio
Donald G. Waters, 303 Clinton St., St. Elmore, Ohio
Ward B. Williams, 419 Harrison Ave., Greenville, Ohio

INDIANA

Walter E. Welch, State Chairman, Middlebury, Ind.
R. P. Beardsley, R.F.D. 2, Hamilton, Ind.
Walter E. Buss, Edenwald Gardens, Vincennes, Ind.
Paul H. Cook, R.F.D. 4, Bluffton, Ind.
Mrs. Merrill Doriot, Goshen, Ind.
Wilmer B. Flory, 1533 Meadowlawn Ave., Logansport, Ind.
Mrs. Waide E. Gillman, 4925 E. 65th St., Indianapolis 44, Ind.
Mrs. Frances C. Horton, 528 Bristol St., Elkhart, Ind.
Mrs. Elmer Kidd, 2201 Cherrywood Ave., New Castle, Ind.
E. Greig Lapham, 1003 Strong Ave., Elkhart, Ind.
Forrest V. McCord, 2111 Reserve St., Muncie, Ind.
Mrs. Leo Noirot, Waterloo, Ind.
Miss Mary Williamson, Longfield Iris Farm, Bluffton, Ind.
George G. Zink, 8308 Kraay Ave., Munster, Ind.

Region 7

KENTUCKY, TENNESSEE, ALABAMA, MISSISSIPPI

R.V.P., Carl Carpenter, 115 E. 19th St., Owensboro, Ky.
Mrs. A. F. Allen, 556 N. Highland, Memphis, Tenn.
Richard N. Banks, Hollywood, Miss.
Walter L. Brown, 912 Gilmore Ave., Nashville, Tenn.
Robert S. Carney, 3551 Midland, Memphis, Tenn.
Mrs. Evelyn Clark, 372 Grandview, Memphis, Tenn.
Miss Annie A. Cooper, 301 Main St., Oxford, Ala.
Mrs. Earl Dodson, Box 434, Lyndon, Ky.
Geddes Douglas, Franklin Rd., Brentwood, Tenn.
Mrs. Geddes Douglas, Hill Rd., Brentwood, Tenn.
Mrs. E. R. Fox, 1663 Glenview Ave., Memphis, Tenn.
Mrs. S. D. Kerr, 2300 Bradley Ave., Louisville, Ky.
Mrs. Frank Lucas, Maple Heights, Owensboro, Ky.
Mrs. Elby D. Martin, 4462 Poplar Pike, Memphis 11, Tenn.
Mrs. William P. Murrah, 1615 Central Ave., Memphis, Tenn.

Mrs. J. C. Page, Sardis, Miss.
John E. Pierce, 2583 Jackson Ave., Memphis, Tenn.
Mrs. Arline Rawlins, 1244 Park St., Bowling Green, Ky.
Mrs. T. B. Revell Jr., 334 3rd St., Grenada, Miss.
Mrs. Leo F. Reynolds, 4284 Auburn Rd., Memphis 16, Tenn.
John B. Robinson, 4510 Colorado Ave., Nashville, Tenn.
Mrs. Reuben Sawyer, 4887 Shady Grove Rd., Memphis, Tenn.
Mrs. W. G. Shaffer, Coahoma, Miss.
Miss Alta Shelton, 304 W. Tuscaloosa St., Florence, Ala.
Mrs. James U. Smith, 2528 Clarendon Ave., Louisville 5, Ky.
Mrs. H. P. Tipton, Horn Lake, Miss.
Mrs. Elbert Ward, Jr., 741 Chickasaw Ave., Jackson, Miss.
Mrs. Nolan F. West, Sardis, Miss.
William H. Wicker, 1101 22nd St. S.W., Knoxville, Tenn.
Mrs. T. S. Williamson, 424 N. Locust St., Florence, Ala.
J. E. Wills, National Bldg., Nashville, Tenn.

Region 8

WISCONSIN, MINNESOTA

R.V.P., Mrs. William C. Peterson, 3731 Oliver Ave., North, Minneapolis 12, Minn.
R. C. Basindale, 2820 N. Lefeber Ave., Milwaukee 10, Wis.
Mrs. Esther Berger, 2236 E. 42nd St., Minneapolis, Minn.
A. E. Blodgett, 1008 E. Broadway, Waukesha, Wis.
Mrs. Edythe Burns, 1707 77th Ave., North, Minneapolis, Minn.
Granville Gable, 2543 38th Ave., South, Minneapolis 6, Minn.
Ronald Hill, 1315 S. 23rd St., Milwaukee, Wis.
Mrs. Robert Reinhardt, Rt. 6, Box 660, Waukesha, Wis.
Charles Rooney, East River Rd., Minneapolis, Minn.
W. G. Sindt, 1847 East Ave., St. Paul 9, Minn.
Edward C. Straub, R.F.D. 3, Wayzata, Minn.
Mrs. J. F. Thompson, 529 Woodland Ave., Duluth 5, Minn.

Region 9

ILLINOIS

R.V.P., Hubert A. Fischer, Route 3, 63rd St., Hinsdale, Ill.
Fred E. Bond, 200 S. 17th Ave., Maywood, Ill.
Dr. C. E. Branch, Piper City, Ill.
W. D. Button, 14501 St. Louis Ave., Midlothian, Ill.
Brother Charles, S.V.D., Mission Gardens, Techney, Ill.
Elmer A. Claar, 617 Thornwood Lane, Northfield, Ill.
Dr. E. L. Clark, 619 Emerson St., Evanston, Ill.
Mrs. Fred H. Clutton, 809 Kimball Rd., Highland Park, Ill.
George J. Cowan, 1446 N. Touhy Ave., Chicago, Ill.
Mrs. Ethel Doerrer, 17959 S. Oak Park Ave., Tinley Park, Ill.
Mrs. William G. Dumont, 1615 Hinman, Evanston, Ill.
Gerald J. Donahue, 134 S. Cuyler Ave., Oak Park, Ill.
Miss Eva E. Faught, 809 W. Main, Carbondale, Ill.
Orville W. Fay, 1522 Isabella St., Wilmette, Ill.
Richard Goodman, 253 Bloomingbank Rd., Riverside, Ill.
Theodore R. Greer, Rt. 1 Box 13, Joy, Ill.
Mrs. R. E. Greenlee, Chrisman, Ill.
Mrs. Lindsay Hahn, 2617 S. 11th St., Springfield, Ill.

David F. Hall, 809 Central Ave., Wilmette, Ill.
Mrs. Mildred H. Harrell, 1108 Liberty St., Aurora, Ill.
E. L. Hodson, 470 Greenfield Ave., Glen Ellyn, Ill.
Mrs. John B. Moore, 520 N. Main St., Benton, Ill.
William G. Reiser, 1235 Glenview Rd., Glenview, Ill.
Nathan H. Rudolph, 405 Lakelawn Blvd., Aurora, Ill.
Ralph M. Schroeder, Warrensburg, Ill.

Region 10

LOUISIANA

R.V.P., Claude Davis, 470 Delgado Dr., Baton Rouge, La.
Miss Marie Caillet, Box 365 S.L.I., Lafayette, La.
Mrs. Sam Caldwell, 230 Ockley Dr., Shreveport, La.
Mrs. Minnie Colquitt, 487 Albany, Shreveport, La.
Sidney Conger, 609 S. Hazel St., Arcadia, La.
Mrs. Ray J. Cornay, Box 424 Southwestern, Lafayette, La.
Mrs. D. R. Dickenson, 823 Ratcliff St., Shreveport, La.
Miss Caroline Dormon, Saline, La.
Mrs. William R. Gates, 404 Linderman Ave., West Monroe, La.
Mrs. John McInnis, Sr., 911 Jefferson, Minden, La.
Ira S. Nelson, Southwestern, Lafayette, La.
Mrs. Joseph C. Roberts, Sr., Rt. 3, Baton Rouge, La.
Hamilton Robertson, 2515 Vance Ave., Alexandria, La.
Mrs. V. C. Sappington, 209 Pennsylvania, Shreveport, La.
Mrs. Alexander Smith, 212 Ockley Dr., Shreveport, La.
Mrs. Lillian Trichel, 811 Kirby Place, Shreveport, La.

Region 11

MONTANA, IDAHO, WYOMING

R.V.P., Homer N. Metcalf, Dept. of Hort., Montana State College, Bozeman, Mon.
Mrs. Ed Conrad, Castleford, Idaho
Mrs. W. C. Fox, 238 Davis Ave., Nampa, Idaho
Robert Jensen, 429 S. 9th St., Montpelier, Idaho
Mrs. Alfred Kramer, Rt. 2, Buhl, Idaho
Mrs. James Maher, 708 10th St., Nampa, Idaho
Kenneth S. Moore, 1040 Thurmond, Sheridan, Wyoming
Mrs. Ralph Nelson, 906 Foster Ave., Coeur d'Alene, Idaho
Mrs. Estelle A. Ricketts, Rt. 3, Jerome, Idaho
Mrs. Sidney W. Smith, Rt. 2, Twin Falls, Idaho
Mrs. Thomas Speedy, 459 Elm St., Twin Falls, Idaho
Mrs. Lowell A. Storm, Chugwater, Wyoming
Mrs. Glen Suiter, Rt. 1, Caldwell, Idaho
Mrs. C. W. Vallette, Declo, Idaho
Mrs. Arthur N. Walker, Rt. 2, Kimberly, Idaho

Region 12

UTAH, ARIZONA, NEW MEXICO

Acting R.V.P., M. D. Naylor, 1484 Yale Ave., Salt Lake City, Utah
Mrs. Margaret Y. Albright, 2101 E. 45th South, Salt Lake City, Utah
Mrs. Almira Baird, 980 N. 2nd East, Provo, Utah
Mrs. Ralph Carlston, 3642 S. 13th East, Salt Lake City, Utah
Dr. Phillip G. Corliss, Box 68, Somerton, Arizona

Mrs. Luzon Crosby, R.F.D. 2, Box 623, Orem, Utah
Mrs. Mary Muse Duncan, 3 Plaza Chamisal, Santa Fe, N. M.
Mrs. A. J. Fitzgerald, R.F.D. 1, Box 203, Magna, Utah
W. Foulger, 171 S. 3rd East, American Fork, Utah
Fisher Harris, 1422 Military Way, Salt Lake City, Utah
Mrs. Valentine Jacobson, 1525 E. 39th South, Salt Lake City, Utah
Warren P. Kirk, Pleasant Grove, Utah
Carl Larsen, 2561 Elm Ave., Salt Lake City, Utah
Tell Muhlestein, 691 E. 8th North, Provo, Utah
M. D. Naylor, Jr., 1484 Yale Ave., Salt Lake City, Utah
Clifford M. Reynolds, 6863 Crestview Circle, Bountiful, Utah
Raymond C. Solomon, 1789 Hubbard Ave., Salt Lake City, Utah
Miss Gertrude Songer, Box 2474, Bisbee, Arizona
M. D. Wallace, 417 South State St., Orem, Utah

Region 13

WASHINGTON AND OREGON

R.V.P., Bennett C. Jones, 5635 S.W. Boundary, Portland 19, Ore.
Ronald J. Beattie, Rt. 3, Box 535, Canby, Oregon
Mrs. Tom M. Brown, Rt. 4, Box 145, Walla Walla, Wash.
George W. Bushell, Rt. 5, Box 231-A, Olympia, Wash.
Bill Chandler, Brookside Gardens, Rt. 4, Walla Walla, Wash.
Mrs. L. V. Carlson, Summerville, Ore.
Merle Daling, Waterville, Wash.
Fred DeForest, Rt. 1, Monroe, Ore.
Mrs. Rose Dightman, 3219 N. 33rd St., Tacoma, Wash.
Mrs. W. R. Hubbard, Rochester, Wash.
Mrs. Joseph Hunt, 129 El Dorado, Tacoma, Wash.
Mrs. G. A. Krause, 229 High St., Klamath Falls, Ore.
J. G. Linse, 1421 N. 16th Ave., Yakima, Wash.
Mrs. L. B. Losey, R.F.D. 2, Box 307, Walla Walla, Wash.
Mrs. M. N. Mahood, 11250 1st St. N.W., Seattle, Wash.
Austin Morgan, 417 S.E. Elm, College Place, Wash.
Austin A. Myers, 8427 S.E. 7th Ave., Portland, Ore.
Gordon W. Plough, 12 S. Delaware St., Wenatchee, Wash.
Dr. Matthew C. Riddle, 2557 S.W. Vista, Portland 1, Ore.
Bernard Schreiner, R.F.D. 2 Box 327, Salem, Ore.
Robert Schreiner, R.F.D. 2, Box 327, Salem, Ore.
G. A. Shoop, 2009 N.E. Liberty, Portland, Oregon
Mrs. H. A. Simonson, R.F.D. 2, Port Angeles, Wash.
Mrs. Jake L. Smith, Route 3, Waitsburg, Wash.
Mrs. Wallace Westenskow, Box 164, Imbler, Ore.

Region 14

NORTHERN CALIFORNIA

R.V.P., Mrs. Sydney B. Mitchell, 633 Woodmont Ave., Berkeley 8, Calif.
Mr. David Childs, 4849 Pennsylvania Ave., Fair Oaks, Calif.
Mr. Frank L. Crouch, 6547 Tremont St., Oakland 9, Calif.
Mrs. Thomas S. Dabagh, 1509 Acton St., Berkeley 2, Calif.
Mr. William C. Diehl, Las Trampas Rd., Alamo, Calif.
Mr. L. A. Gaulter, 217 Farrelly Dr., San Leandro, Calif.
Mrs. H. N. Hansen, Box 302, Lafayette, Calif.

Mrs. Ethel A. Johnson, 22559 B St., Hayward, Calif.
Mr. Harold I. Johnson, 172 Austin Ave., Atherton, Calif.
Mrs. M. C. Knopf, 651 Dry Creek Rd., Campbell, Calif.
Mrs. J. L. Melrose, Rt. 6, Box 424, Modesto, Calif.
Mrs. Al Nahas, 4350 Stockton Blvd., Sacramento 17, Calif.
Mr. Robert F. Nourse, Rt. 2, Box 268B, Los Gatos, Calif.
Mr. Roy Oliphant, 40 Senior Ave., Berkeley, Calif.
Mr. Willard O. Pankost, 401 41st St., Sacramento 16, Calif.
Mrs. G. G. Pollock, 1341 45th St., Sacramento, Calif.
Mr. Carl A. Quadros, 1749 Bell St., Sacramento 15, Calif.
Mr. Ralph B. Rogers, 3 Tappan Ct., Sleepy Hollow, San Anselmo, Calif.
Mrs. A. L. Romer, Rt. 1, Box 101, Ukiah, Calif.
Mrs. Lucille Trine, Box 325, Felton, Calif.

Region 15

SOUTHERN CALIFORNIA

R.V.P., Miss Archie MacLean, 6855 N. Longmont, San Gabriel, Calif.
Miss Lee Aspinwall, 9516 Woodhue St., Rivera, Calif.
Mrs. Laura Burbridge, 17231 Sherman Way, Van Nuys, Calif.
Stewart H. Carse, 2844 Chatsworth Blvd., San Diego 6, Calif.
Ralph Conrad, 13542 Hart St., Van Nuys, Calif.
Clarke Cosgrove, 8260 Longden Ave., San Gabriel, Calif.
Tom Craig, R.F.D. 4, Box 315, Escondido, Calif.
Mrs. J. C. Cruise, R.F.D. 1, Box 102, Yucaipa, Calif.
Dr. H. L. Decker, 3880 Clayton Ave., Los Angeles 27, Calif.
Mrs. Barry Dibble, 120 E. Palm Ave., Redlands, Calif.
Dr. Richard Eckles, 453 Walnut Ave., Redlands, Calif.
Mrs. Elsie Heimer, 4748 Columbus Ave., Sherman Oaks, Calif.
C. R. Hopson, 9083 E. Duarte Rd., San Gabriel, Calif.
Frederick Kennedy, 1304 W. Jaunita, San Dimas, Calif.
C. W. Lovell, 311 Mesa Lane, Santa Barbara, Calif.
Mrs. Mildred Lyon, 7041 Woodman Ave., Van Nuys, Calif.
Miss Elma Miess, 12982 Borden Ave., San Fernando, Calif.
Mrs. Melva Moon, 221 Oliver Rd., Santa Barbara, Calif.
George H. Murray, Box 711, Charter Oak, Calif.
Mrs. Douglas Pattison, 30b Narcissus St., Corona del Mar, Calif.
Robert Primer, Littlerock, Calif.
Charles P. Salzer, 505 G St., Bakersfield, Calif.
Mrs. Naida Stoddern, 810 Cheltenham Rd., Santa Barbara, Calif.
Mrs. Gertrude Stuetzel, 8239 Topango Canyon Blvd., Canoga Park, Calif.
Dr. A. H. Sturtevant, 1244 Arden Rd., Pasadena 5, Calif.
Frank S. Walker, 7013 Haskell Ave., Van Nuys, Calif.
Marion R. Walker, 5210 E. Telephone Rd., Ventura, Calif.

Region 16

CANADA

R.V.P. Mrs. William McCann, 1 Queen St. North, Thorold, Ontario
Mrs. Freeman Barker, R.R. 2, Gormley, Ontario
Charles Bauckham, 372 Bay St., Toronto, Ontario
Harry Bickle, 42 Glen Elm Ave., Toronto, Ontario
R. K. Chamberlain, 314 Maria St., Sarnia, Ontario

Rev. W. T. Corcoran, 50 Well St., Stratford, Ontario
Fred E. Dyer, 654 No. 4 Road, Lulu Island, Vancouver, B. C.
W. J. Ellison, Weston, Ontario
William G. Fleming, 154 Sydenham St., London, Ontario
Leslie Laking, Box 399, Hamilton, Ontario
C. E. Little, Richmond Hill, Ontario
William MacDonald, George St. at Trinity Ave., Sydney, Nova Scotia
W. J. Moffat, 170 Delaware Ave., Hamilton, Ontario
Dr. A. H. Rolph, The Elms, Scarlett Rd., Weston, Ontario
R. M. White, R.R. 1, Summerland, British Columbia
Lloyd Zurbrigg, 233 Water St., Stratford, Ontario

Region 17

TEXAS

R.V.P., Mrs. J. E. Gill, 1616 12th St., Wichita Falls, Texas
Mrs. Ed Allard, 108 Race St., Lampasas
Mrs. R. C. Badgett, 3713 23rd St., Lubbock
Dr. Sidney Baird, 3549 Southwestern, Dallas 5
Mrs. Sidney Baird, 3549 Southwestern, Dallas 5
Mrs. Steve J. Barrett, 4301 Purdue St., Dallas
Z. G. Benson, 1509 22nd St., Wichita Falls
Miss Willie Birge, 3313 Perry Lane, Austin
Mrs. L. E. Brooks, Iowa Park
Mrs. M. A. Buchanan, Grapevine
Mrs. P. A. Childers, Rt. 1, Temple
W. R. Cochran, 3500 Beverly Dr., Dallas 5
Wilton Collier, U. S. Experiment Station, Temple
Mrs. J. D. Dillard, 2007 Harvard Dr., Midland, Texas
Mrs. William Dougherty, 725 Northeast St., Abilene
Mrs. Harry Frey, 740 E. 13th St., Belton
Miss Annie Giles, 1701 E. 38½ St., Austin
Miss Jeannette Giles, 1701 E. 38½ St., Austin
H. H. Henkelmann, 4020 Linden Ave., Fort Worth
Mrs. L. P. Johnson, 836 Willie St., Abilene
Mrs. Joe M. Leonard, Sr., 227 Lanins St., Gainesville
A. E. Mackey, Box 3844, T.S.C.W., Denton
M. W. Norton, Jr., 4215 Rosa Dr., Dallas
Mrs. Asbury S. Parks, Rt. 4, Box 505 E., Houston 5
Mrs. S. W. Ray, 2271 Lipscomb, Fort Worth
Guy Rogers Esq., 1806 Grant St., Wichita Falls
Mrs. Guy Rogers, 1806 Grant St., Wichita Falls
F. O. Rose, 3629 Fountain St., Amarillo
Mrs. W. K. Rose, 2340 Lipscomb, Fort Worth
O. C. Rose, 704 Virginia, Amarillo
F. D. Russell, 2524 Shirley, Ft. Worth
Mrs. Willis J. Slaughter, 4 W. 11th Pl., Houston 5
Mrs. A. M. Tallman, 3312 Childress, Fort Worth
Mrs. Ray Thompson, 1813 Speedway, Wichita Falls
Mrs. H. H. Varner, Rt. 2, Box 413, El Paso
Mrs. W. E. Wallace, 408 N. Seventh St., Temple
Mrs. W. B. Wardlow, 1312 Elton Lane, Austin
Mrs. Loreta White, Box 565, Gainesville

Roy White, 2632 White Settlement Rd., Fort Worth
Mrs. Edward Wilkerson, 12 Chelsea Pl., Houston 6

Region 18
KANSAS, MISSOURI

R.V.P., P. M. Petersen, 5400 Euclid Ave., Kansas City 30, Mo.
Robert Armstrong, Neosho, Mo.
Orville Baker, 810 Litchfield St., Wichita, Kan.
Prof. Frank H. Banyard, Rt. 2, Hutchinson, Kan.
Clifford Benson, 1201 Verl Place, St. Louis, Mo.
Mrs. Bert Brickell, Saffordville, Kan.
Roy Brizendine, 2214 Maryland, Topeka, Kan.
Miss Lily Budner, 3509 Brown Rd., St. Louis 21, Mo.
Mrs. Walter Buxton, 817 S. Sappington Rd., Webster Groves 19, Mo.
Dr. Lewis Clevenger, 824 E. Patterson Ave., Kirksville, Mo.
Mrs. Earl Creech, 1510 Byers Ave., Joplin, Mo.
Mrs. Pearl Dafforn, Cunningham, Kan.
Paul Dennis, Rt. 9, Box 890, Springfield, Mo.
Ted R. Elstrom, Rt. 1, Concordia, Kan.
Mrs. W. O. Fleck, 29 Silver Lane, Independence, Mo.
Mrs. W. A. Gates, 414 W. College St. Aurora, Mo.
J. H. Grinter, 126 W. Maple Ave., Independence, Mo.
Mrs. Ervin Gruben, 709 College St., Scott City, Kan.
C. Allen Harper, F Street, Gashland, Mo.
Mrs. C. R. Harry, Home, Kan.
Dr. William J. Hunt, 2600 Pacific St., St. Joseph, Mo.
Edward S. Justice, 524 S. Lorraine, Wichita 9, Kan.
Rev. David R. Kinnish, O.S.B., St. Benedict's College, Atchinson, Kan.
C. H. Lewis, 4512 State Line, Kansas City, Kan.
John J. Ohl, Rt. 5, Wichita, Kan.
Mrs. Dorothy Palmer, 122 E. Drake Ave., Webster Groves, Mo.
Mrs. Buford Ramsey, Hutchinson, Kan.
Mrs. William Razor, Rt. 2, Washington, Kan.
Ray K. Rickman, 1610 Bird Ave., Joplin, Mo.
Glenn Rogers, 902 Crisp, Kansas City, Mo.
Dr. W. H. Ryle, Kirksville, Mo.
Mrs. J. H. Salley, Liberal, Kan.
Mrs. J. A. Sapp, 2319 Pennsylvania Ave., Joplin, Mo.
Carl O. Schirmer, 6104 King Hill Ave., St. Joseph, Mo.
Dr. H. W. Schirmer, 5701 S. 2nd St., St. Joseph, Mo.
Lloyd Schoonover, 404 S. 5th St., Humboldt, Kan.
W. F. Scott, Jr., 3 Sassafras Lane, Ferguson 21, Mo.
Mrs. W. F. Scott, Jr., 3 Sassafras Lane, Ferguson 21, Mo.
Herman J. Selle, Gower, Mo.
Mrs. Beryl L. Smith, 506 Miami St., Hiawatha, Kan.
Elmer H. Tiemann, Rt. 3, Box 238, Florissant, Mo.
Bernard E. Ulrich, 1120 Parallel St., Atchison, Kan.
Mrs. Bernard E. Ulrich, 1120 Parallel St., Atchison, Kan.
F. Gordon Willis, 1214 Willow Ave., Independence, Mo.

Region 19
SOUTHERN NEW YORK—NEW JERSEY

R.V.P., Mrs. Kenneth D. Smith, Benedict Rd., Dongan Hills, Staten Island 4, N. Y.

S. Houston Baker, Hemknoll, Reynolds Ave., Box 377, Whippany, N. J.
Frank J. Baxter, 554 Westminster Ave., Elizabeth, N. J.
Charles H. Caldwell, 55 Warren Pl., Montclair, N. J.
F. W. Cassebeer, 953 Madison Ave., New York 21, N. Y.
Dr. Arthur J. Casselman, 301 N. 2nd St., Camden, N. J.
Mrs. Zeh Dennis, Jr., 11 Meadow Rd., Chatham, N. J.
Mrs. Eileen L. Donohoe, Mill Race Farm, Clinton, N. J.
Henry P. Fass, Box 749, Hicksville, L. I., N. Y.
Peter J. Fass, Box 749, Hicksville, L. I., N. Y.
Paul F. Freese, 23 Hubbard Dr., White Plains, N. Y.
Miss Harriette R. Halloway, 832 Madison Ave., Plainfield, N. J.
David F. Johnson, 476 New Market Rd., Dunellen, N. J.
Mrs. Thomas Lausten, Dogwood Hills, Rt. 29, Mountainside, N. J.
Edwin A. Rundlett, 1 Fairview Ave., Staten Island 1, N. Y.
Mrs. Ernest L. Scott, 64 South St., Bogota, N. J.
Kenneth D. Smith, Benedict Rd., Dongan Hills, Staten Island 4, N. Y.
Miss Charlotte Svezey, The Flower Bowl, East Hampton, L. I., N. Y.
Mrs. F. P. Walther, 474 Upper Mountain Ave., Montclair, N. J.
Theodore A. Weston, 369 Lexington Ave., New York 17, N. Y.

Region 20

COLORADO

R.V.P., Everett L. Cline, 991 S. Columbine, Denver
O. T. Baker, 7650 W. 4th Ave., Lakewood
LeMoine J. Bechtold, 4201 S. University Blvd., Englewood
Dr. J. R. Durrance, 4301 E. Cedar Ave., Denver, Colorado
R. E. Ewalt, 2354 Elm St., Denver 7
Miss Aileen Fluker, 575 E. Bates, Englewood
Jasper F. Lincoln, 1200 Lake Ave., Pueblo
Everett C. Long, Box 19, Boulder
Mrs. C. A. Perrigo, 2004½ S. Vine, Denver
Mrs. J. H. Schwemley, 644 W. Fifth St., Wray
H. M. Shulenburg, 7606 Robinson Way, Arvada
Don Weber, 1295 S. Columbine, Denver
Mrs. F. E. Winegar, 3540 E. Jewell Ave., Denver 10
Mrs. Roy M. Wolf, 1020 Greenwood, Canon City, Colorado

Region 21

IOWA, NEBRASKA, SOUTH DAKOTA, NORTH DAKOTA

R.V.P., Mrs. B. E. Ellis, 118 N. Sheridan Ave., Ottumwa, Iowa
Henry Brees, Pierce, Nebr.
Robert O. Clinefelter, 1541 S. 26th St., Omaha, Nebr.
Mrs. Leota Dailey, 2825 W. 5th St., Sioux City, Iowa
George R. Dubes, 2128 Isabella St., Sioux City, Iowa
E. A. Emery, 219 N. Cecelia St., Sioux City, Iowa
Mrs. Mable Framke, 3110 Lakeport Rd., Sioux City, Iowa
Miss Hazel Grapes, Big Springs, Nebr.
Miss Vivian Grapes, Big Springs, Nebr.
Mrs. Angie Gutekunst, Box 37, State Center, Iowa
Mrs. Edith M. Hudson, Stella, Nebr.
Mrs. E. J. Irving, 4612 Saratoga Ave., Omaha 11, Nebr.
Mrs. Martin Johnson, West Fargo, N. D.

Mrs. Charles J. Kavan, 2310 S. 49th St., Omaha 6, Nebr.
William Keeling, 2221 Towle St., Fall City, Nebr.
Mrs. Vern Larson, 3331 Nebraska St., Sioux City, Iowa
R. L. Lyell, 2103 N. St., Auburn, Nebr.
Mrs. Carl Marcue, LeMars, Iowa
Mrs. J. Arthur Nelson, 3131 N. 58th St., Omaha, Nebr.
Mrs. Ralph E. Ricker, 1516 Ross St., Sioux City, Iowa
Carl Rohman, 1979 D. St., Lincoln, Nebr.
Frank Ryan, Quimby, Iowa
Henry Sass, Rt. 1, Benson Sta., Omaha 4, Nebr.
W. S. Snyder, 3822 4th Ave., Sioux City, Iowa
Clifford Smith, Vermillion, S. D.
Chet W. Tompkins, 423 Casselman St., Sioux City, Iowa
Mrs. Clyde Tucker, 3801 15th St., Des Moines, Iowa
Charles Whiting, Mapleton, Iowa
Mrs. Charles Whiting, Mapleton, Iowa
Glen Winnie, 423 Court St., Beatrice, Nebr.

Region 22

ARKANSAS AND OKLAHOMA

R.V.P., Miss Eleanor Hill, 1633 E. 22nd St., Tulsa 5, Okla.
Mrs. Harry Archer, Route 2, Miami, Okla.
Mrs. Davis Biggs, Hughes, Ark.
Ralph Deitrick, Route 2, Box 40C, West Fork, Ark.
Joseph W. House, 1014 Boyle Bldg., Little Rock, Ark.
Mrs. John E. Jennings, Wynnewood, Okla.
Mrs. C. E. McCaughey, 5720 N.W. 36th St., Oklahoma City, Okla.
Henry F. Murphy, 419 Monroe St., Stillwater, Okla.
Mrs. R. E. Peuter, 1132 N. McKinley, Oklahoma City 6, Okla.
Mrs. R. M. Powell, 103 Cass St., Hot Springs, Ark.
Mrs. Russell Pryer, 1216 N.W. 33rd St., Oklahoma City, Okla.
Mrs. J. L. Rader, 527 W. Euflala St., Norman, Okla.
F. E. Rice, 1351 Dewey Ave., Bartlesville, Okla.
Mrs. Sam Sargo, Route 4, Box 404, Hot Springs, Ark.
Mrs. E. G. Sawyer, R.F.D. 9, Box 113, Oklahoma City, Okla.
Mrs. Iris Smith, Box 124, Hitchcock, Okla.
Mrs. Cyrus Stanley, 2401 N.E. 24th St., Oklahoma City, Okla.
Mr. L. E. Stoner, 602 N. Malone, Enid, Okla.
Mrs. C. W. Terry, 631 N. Main St., Tulsa, Okla.
Mrs. Paul Updegraff, 324 Emelyn, Norman, Okla.
Mr. Walter P. Vestal, 331 Goshen Ave., North Little Rock, Ark.
Mrs. Colin Whatoff, R.F.D. 7, Box 82, Oklahoma City, Okla.
Mrs. J. E. Zenor, 2232 N.W. 28th St., Oklahoma City, Okla.

ENGLAND

Mrs. G. Anley, St. George's, Wych Hill Lane, Woking, Surrey
The Rev. D. E. Benbow, Christ Church Vicarage, 48 Old Rd. East, Gravesend, Kent
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Even as these pages were being printed, word reached the Bulletin of the deaths of Joe W. House and Junius P. Fishburn.

Mr. House, a very active member of our Board of Directors, died in Little Rock, Arkansas on March 18, while attending a business meeting at a down town hotel. He was stricken with a heart ailment.

Mr. Fishburn who recently retired from the AIS Board was also the victim of a heart condition. He died on March 24, in Washington, D.C. where he had gone from his home in Roanoke to attend a hearing of the Federal Communications Committee.

These two men, both of wide and varied experience, have been leaders in shaping the present policies which govern our Society today. Each has contributed much to our growth and well being.

Time alone will show the extent of our loss.

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April, 1954

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